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COMPILATION AND ANALYSIS OF DEMAND ELASTICITIES
FOR LIVESTOCK PRODUCTS IN THE EUROPEAN COMMUNITY
AND JAPAN: BASED ON STUDIES USING HISTORICAL
SERIES FROM THE 1950'S TO 1970'S WITH
PROJECTIONS UP TO 1985

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Economic Research Service

U.S. Department of Agriculture

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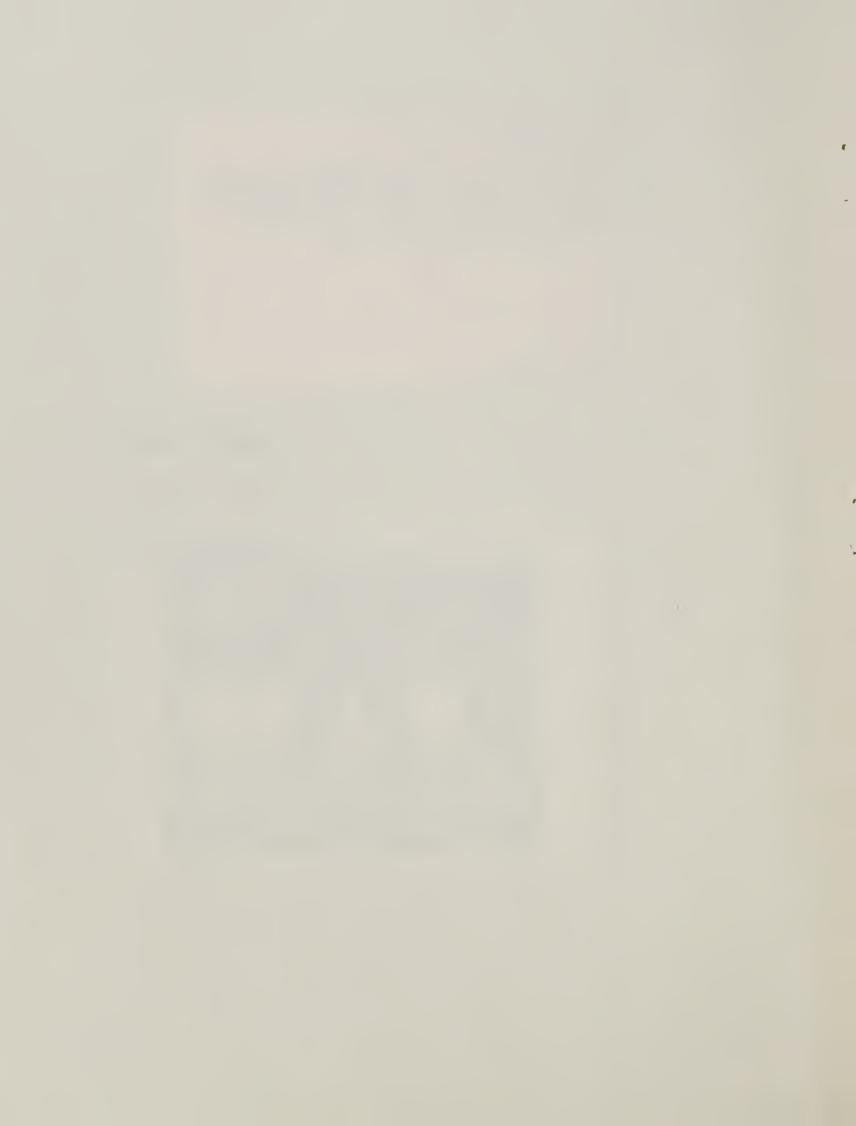
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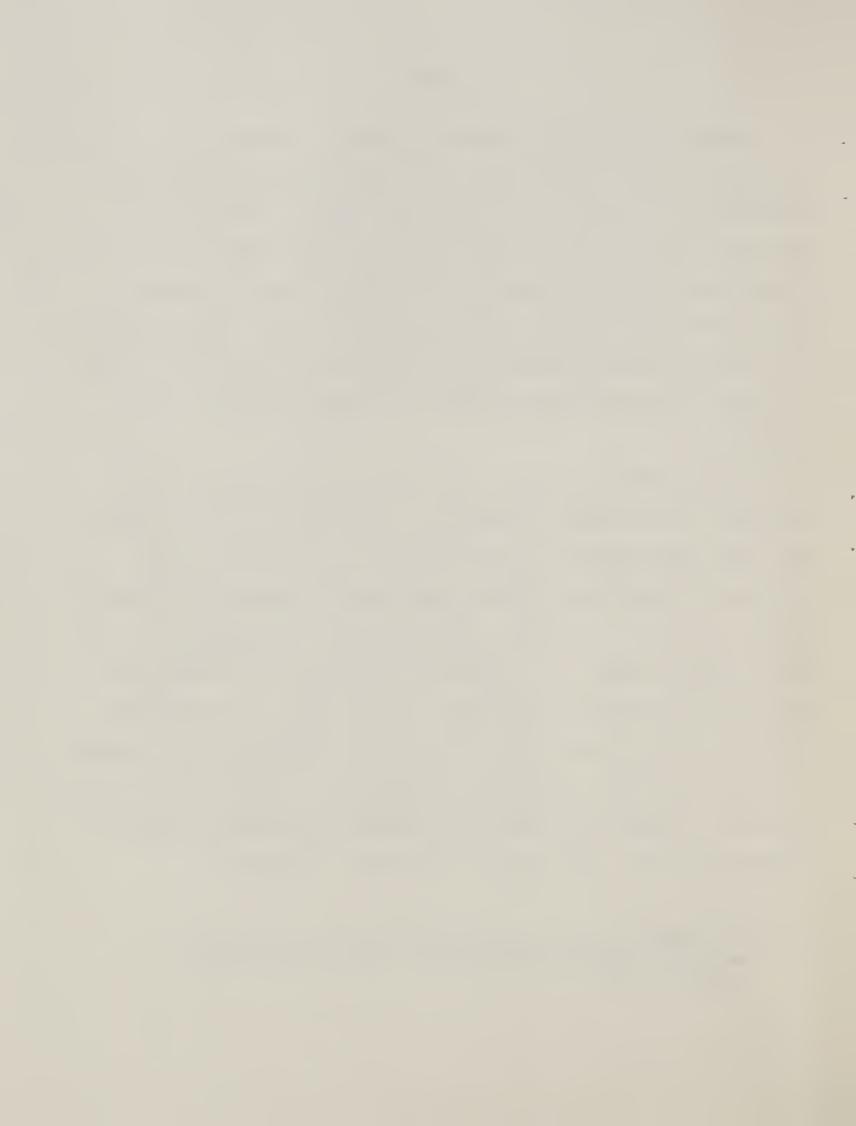


FOREWARD

A number of studies have examined the demand for food in the European Community (EC) and Japan, the two major trading partners of the United States, covering the post World War II period to the mid-1970's. Many also conducted projection exercises of supply and demand for agricultural products with 1985 being the latest year. This paper reviews the literature concerned with measuring the retail consumer demand response for livestock products with respect to changes in income and prices. Almost 50 studies presenting numerical estimates of demand elasticities were reviewed. 1/

The paper is in three parts. The first part provides some general information on the studies reviewed and an interpretation of their results. The second part summarizes the demand sections of the studies that give information on methodology, economic assumptions, and variable descriptions used by the authors. The reader may wish to refer to these summaries as an aid in using the tables. For convenience, the studies are differentiated by whether they pertain to one country or to more than one (multi-country studies). The third part of the report presents the elasticities of demand for income and price in two tabular sections—one for meat and one for dairy products. The compilation tables list the demand elasticities by author in alphabetical order. A key to the tables appears on pages 36-37.

^{1/} The formal definition of demand elasticity is the ratio of a percentage change in consumption to a unit percent change in income or price.



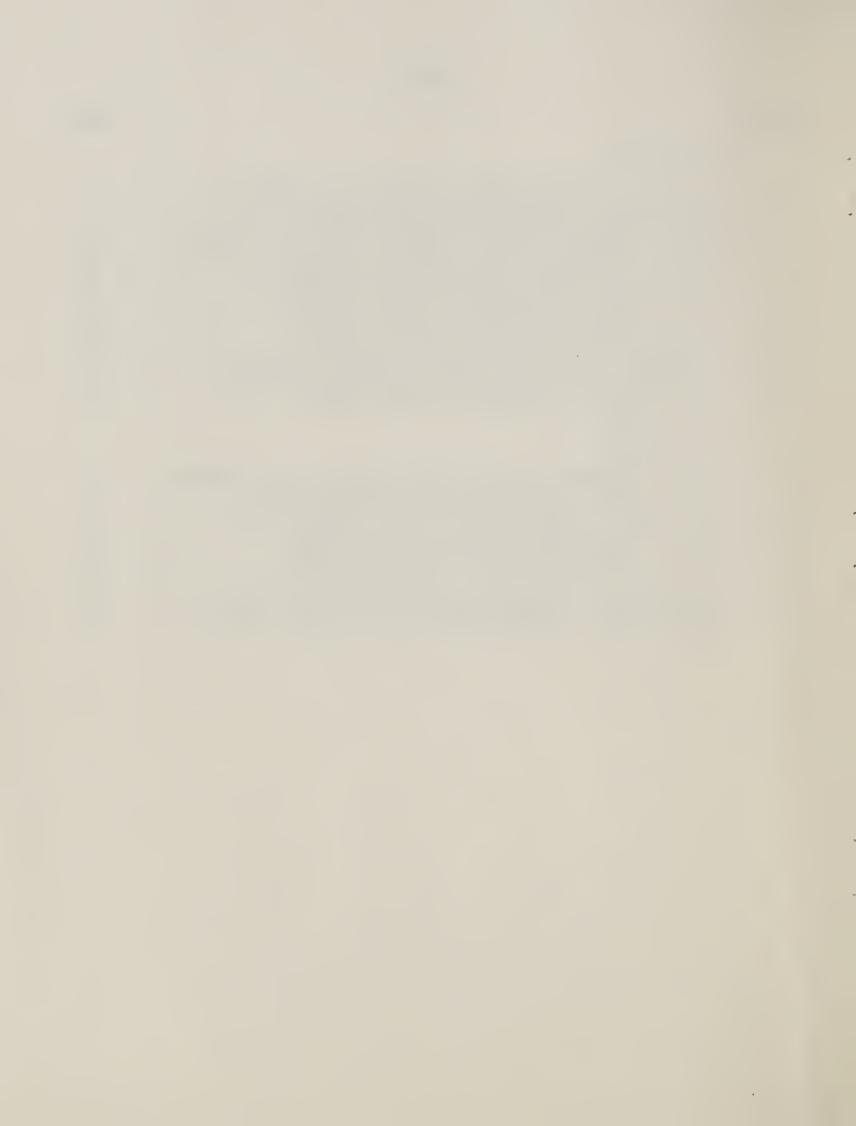
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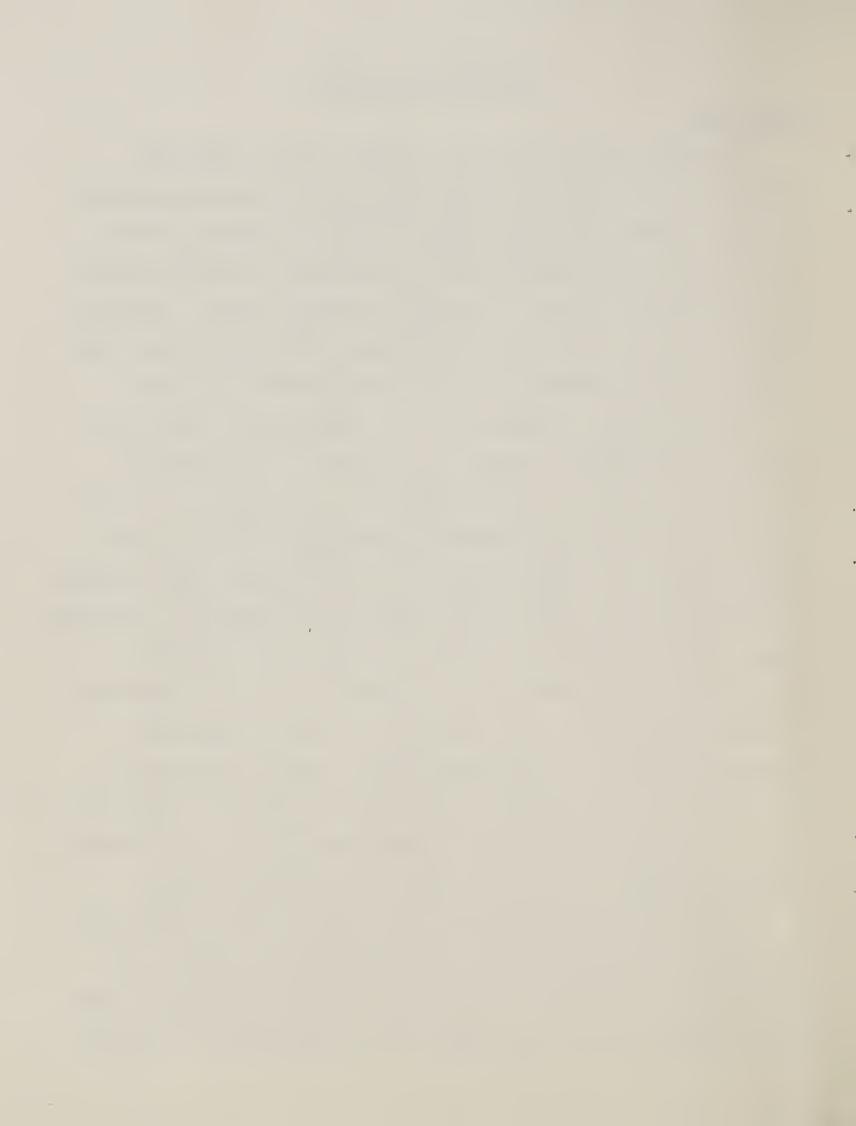
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Introduction

The studies reviewed here were, in general, based on time-series (historical) data, although cross-section analysis was utilized extensively for France, Japan, and the United Kingdom. Time-series statistics for no earlier than 1950 were examined because of severe market disruptions caused by the Depression, World War II, and the early post-war period. Statistical analysis relied, in most cases, on least-squares regression techniques which related per capita consumption to per capita income and retail prices.

Income elasticity of demand was the most common estimate found in the studies. This measurement, however, is not always the most relevant in determining the causes of change in consumption. Price changes are critical, especially in the short run. Although the statistical isolation of price-demand relationships is more difficult to calculate, several studies attempted to measure the effect of direct-price changes on the consumption of particular foods. Also considered in some studies were changes in the consumption of a particular commodity that was due to a change in the price of complementary or competing products (both food and nonfood). However, unlike simple equations with one or two independent variables, statistical measurement of a number of these cross-price elasticities was limited by the complexity of such an analysis. In most cases, the measurement of cross-price relation-ship was restricted to a few close substitutes or complementary goods.

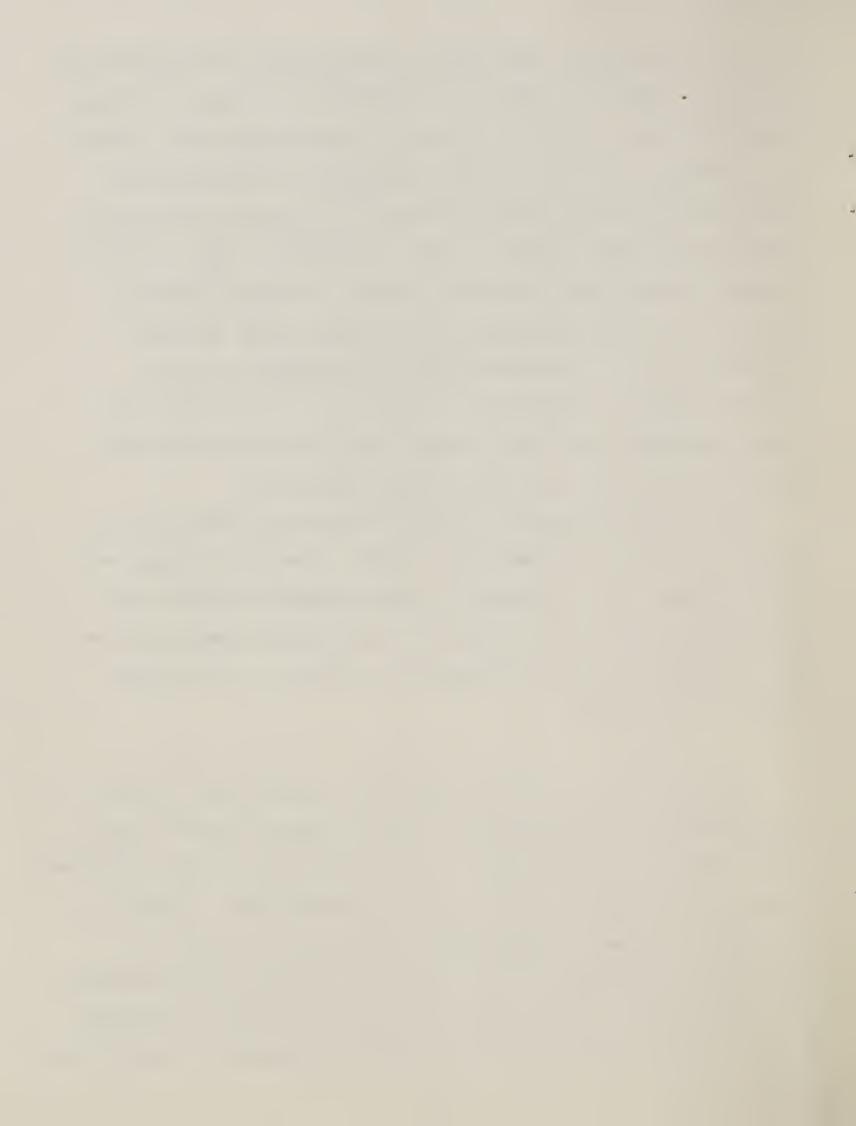
As might be expected, elasticities for the same commodities within the same country were seldom the same. This occurs for several reasons, the most important of which are: 1) Elasticity coefficients were computed both from household or family budget surveys (cross section) and from time series.



It is to be expected that there should be some differences in the elasticities calculated by these two procedures -- particularly because changes in demand relationships over time are not reflected in a cross-section study. Furthermore, consumption and income variables are generally defined differently between cross-section and time-series studies. For example, cross-section consumption was usually measured in terms of expenditures, while time-series consumption was most likely measured in volume: 2) Different equation functions were utilized depending on how the authors viewed the demand relationships; and 3) alternative estimating procedures were used to calculate regression coefficients. Of course, the use of different time periods, demographic and economic classes, and urban and rural dichotomies were also responsible for variation in demand elasticities.

Unless otherwise indicated, most demand elasticities presented in the tables have the following common basis analysis: elasticity estimates were derived from per capita income and per capita consumption figures; prices were generally measured at the retail level; and data was usually expressed on an annual basis and for the population as a whole, i.e., not just one segment of the population.

Despite the variety of economic conditions, data bases, and research methodologies of the studies surveyed, there are general conclusions which can be drawn if the reader is willing to accept the ceterus paribus assumptions presented in the studies. Two broad areas are examined here. One deals with possible changes in the magnitude of elasticities over time. This involves detecting apparent trends of patterns of change and also determining the causal factors. The other area of investigation concerns the estimation and use of elasticity coefficients for projecting future demand for agricultural



products. The principal difficulty lies in estimating repsonses to price changes in the context of long-run projections. Of course, the use of elasticities for projection purposes is related directly to the interpretation of changing demand elasticities over a historical period of time.

Possible Changes in Demand Elasticities

Only elasticities of demand for meat are examined because of a lack of information on dairy products and because of the greater importance of meat products in consumer budgets in the EC and Japan. Tables 1-3 present both income and price elasticities as nearly as possible in chronological order.

Income Elasticities—The study of income elasticities is usually related to the classical demand theory of Ernst Engel, who postulated that as real income grows the demand for food increases by a declining proportion. Engel's theory was based on cross—section analysis of different income groups among Belgian clerical workers. His findings have been interpreted in an economic development context to mean that, over time, income elasticity will be most elastic in an early period but less elastic later, when incomes are higher. The estimates of income elasticities for the EC and Japan tended to confirm this hypothesis. It is apparent from examining the tables that the income elasticity for each meat category has a tendency to decline over time, with the possible exceptions of beef in Japan and the United Kingdom.

Plate (43) claims, based on examination of several studies, that the income elasticity for meat in West Germany declined by half between the early 1950's and late 1960's. This conclusion appears to be substantiated given the available information (table 1). Results from Stamer and Wolffram (49)



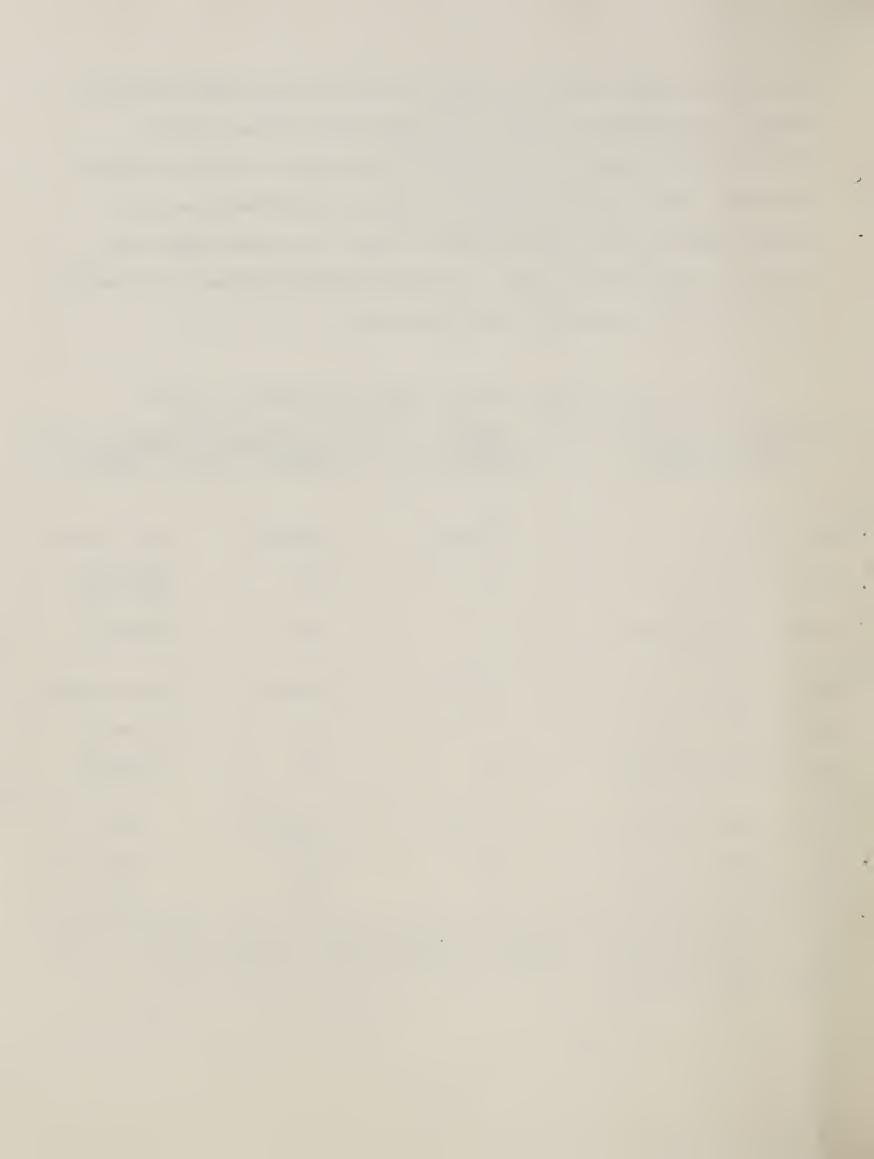
also indicate higher income elasticities for beef and pork during the 1950's. However, any conclusion is conditional because each study was based on different methodologies and the variables measured were not always the same. For example, Weber measured income as per capita consumption expenditure whereas Langen used per capita disposable income. As incomes change there may not be a proportionate change in consumption expenditures if the savings rate is changed to accommodate a new income level.

Table 1--West Germany: Selected demand elasticities, 1950-69

Commodity, source, :	Income	:	: Price elasticity		
and time period :	elasticity	:	Direct	:	Cross
:					
Beef:					
Weber, 1950-58	1.07(.05)		59(.10)		.31(.15)(pork)
Langen, 1955-65	.69		 75		.23(pork) .10(poultry)
Plate/Neidlinger, 1960-69:	.55		60		.20(pork)
Pork:					
Weber, 1950-58	.47(.05)		0.68(.15)		.60(.13)(beef)
: Langen, 1955-65	. 37		45		.13(beef)
: Plate/Neidlinger, 1960-69:	. 30		 55		.30(beef)
Poultry: :	•				
Stamer/Wolffram, 1950-62:	1.31(.16)		2.67(.45)		NA
: - Langen, 1955-65:	.93	-	1.93		NA
Plate/Neidlinger, 1960-69:	.50		80		NA

Note: NA = Not available. Numbers in parentheses are standard errors.

Source: Table 6, p. 44.



Commodity:	Income elas	sticity 1/	•		e elastic		
and :			:	: Cross	price el	asticity v	v.r.t.
time period	Expenditure :	Quantity	: Direct	Beef	Pork	Mutton	Poultry
Beef/veal: 1955 1958 1960 1962 1965 1967 1969 1971 1973 1974	.06 .16 .16 .21 .24(.03) .36(.04) .35(.05)	.0802 .07 .09 .10 .16(.02) .25(.04) .30(.05) .36(.02) .32(.05)					
1956-63: 1964-69: 1969-74:			-1.29(.19) -1.24(.15) 81(.19)				
1956-66: 3/1967-74:			-1.30(.18) -1.07(.18)	-		.04(.10) .22(.10)	* *
Pork: 1955 1958 1960 1962 1965 1967 1969 1971 1973 1974	.30(.08) .32(.05) .32(.08)	.30 .53 .43 .34 .31 .32(.09) .25(.12) .31(.06) .29(.11) .23(.18)					
1956-63: 1964-69: 1969-74:			-1.36(.40) -1.12(.31) -1.21(.21)				
1956-66: 3/1967-74:			-1.24(.33) -1.35(.18)	•			.20(.18) 12(.13)
Mutton/lamb: 1955	.47 .38 .41 .27 .17(.07) .28(.03) .07(.06) .24(.04)	.35 .34 .29 .32 .21 .10(.06) .19(.05) .01(.06) .21(.05)					
See footnotes a	t end of table		-5-			Continue	i

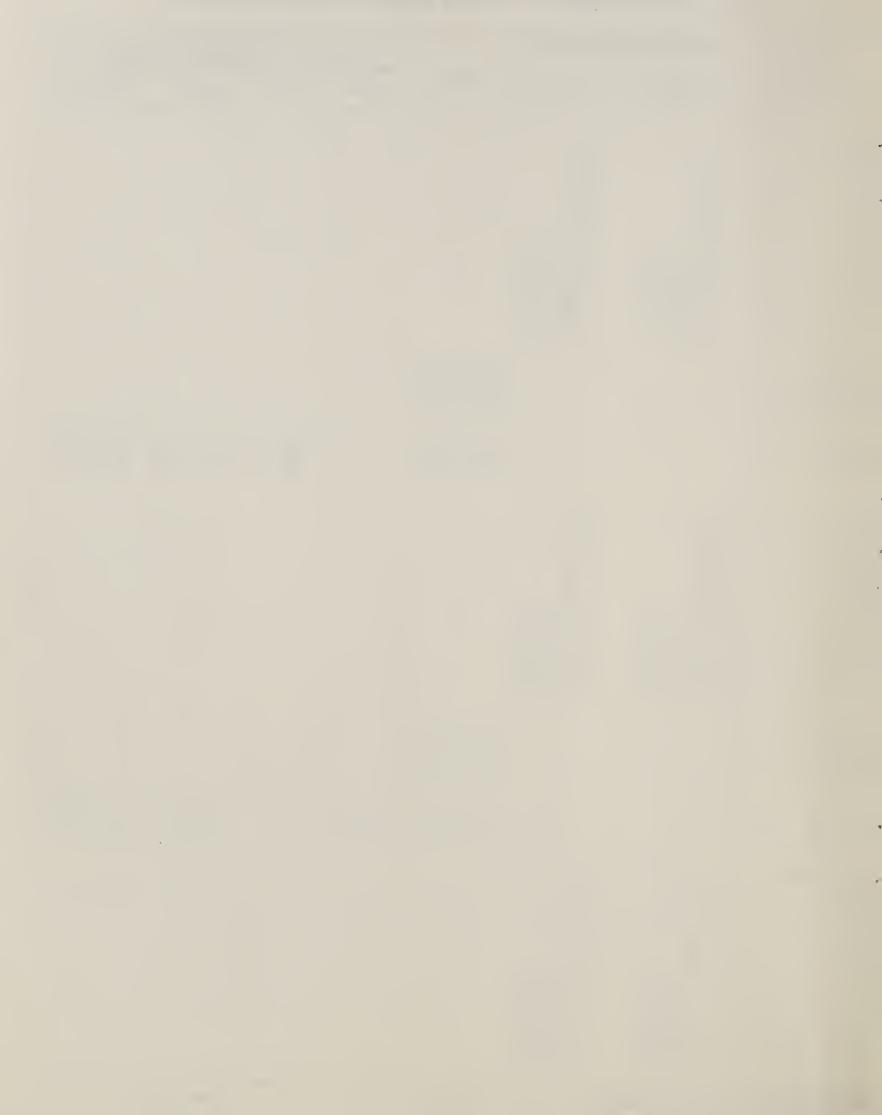


Table 2--United Kingdom: Selected demand elasticities, 1955-74--continued

Commodity:	Income elast	icity 1/	:	Pric	e elastici	ty 2/	
and :	:		:	: Cros	s price el	asticity	w.r.t.
time period :	Expenditure :	Quantity	: Direct	Beef	Pork	Mutton	Poultry
Mutton/con't:: 1956-63: 1964-69:			57(.18) 47(.27) -1.12(.19)				
1956-66: 3/1967-74:			52(.10) -1.43(.21)		•		10(.10) .25(.12)
Poultry: 4/ 1955	1.70 1.51 1.37 .90 .42 .52(.14) .32(.08) .39(.07) .10(.07) .37(.08)	1.61 1.40 1.34 .88 .42 .53(.14) .25(.09) .37(.07) .04(.07) .31(.08)	·				
5/1956-63: 5/1962-67: 6/1969-74:			-1.15(.43) 47(.55) 97(.27))			
<u>5</u> / 1956-66:			-1.26(.36)	.68(.39)	.26(.24)31(.1	0)

Note: Numbers in parentheses are standard errors.

Income elasticities were derived from cross-section analysis where demand is measured in terms of either household expenditures or volume purchased (per capita basis).

-1.30(.30) .20(.31) -.16(.18) .53(.27)

2/ Price elasticities are computed from monthly data for the years indicated.

 $\overline{3}$ / R² is less than .50.

6/6/<u>1967</u>–74

- 4/ All poultry meat uncooked, fresh and frozen: 1955, 1958, 1960, 1962; broiler chicken, uncooked 1965, 1967, 1969, 1971, 1973; broiler chicken, uncooked, including frozen 1974.
- 5/ Poultry, uncooked.
- $\overline{6}$ / Broiler chicken, uncooked, including frozen.
- Source: Table 11, p. 62.

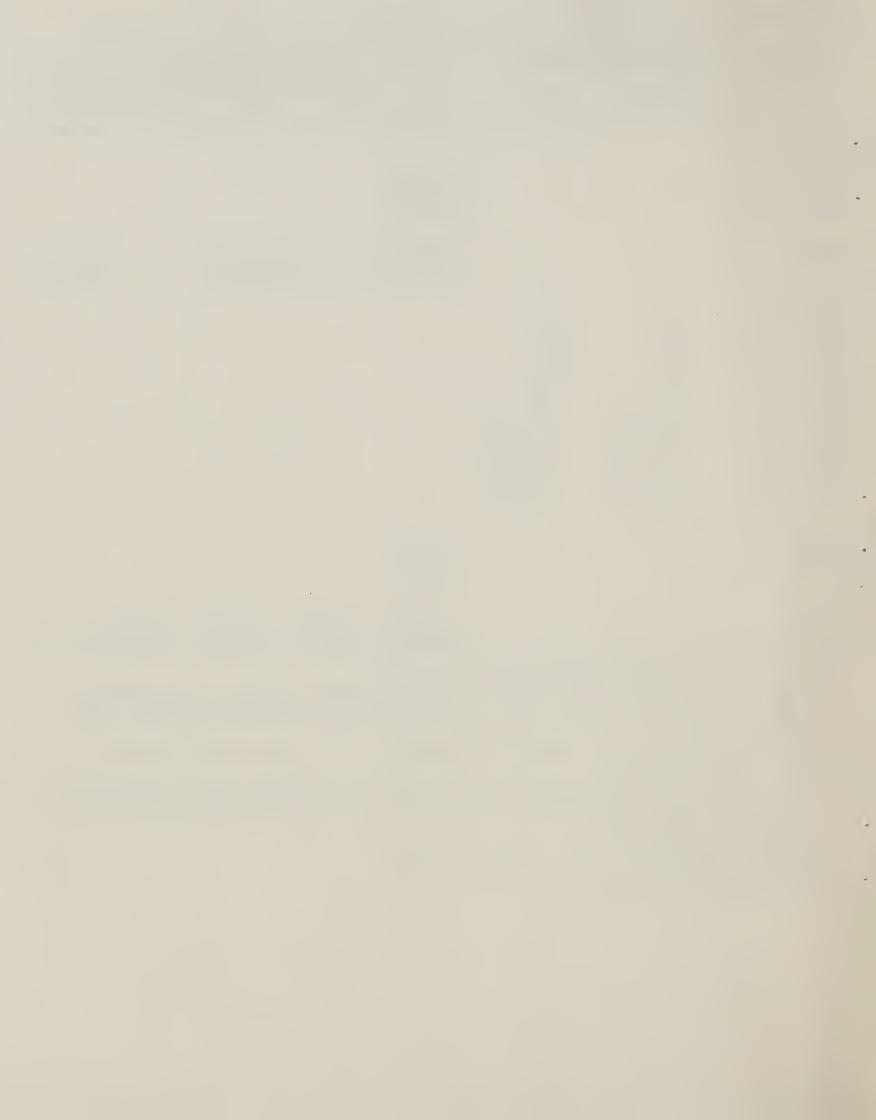


Table 3--Japan: Selected demand elasticities, 1955-73

Commodity :	Income elasticity	Direct		
and time period :		: price elasticity		
Beef: 1963	1.31 1.16 1.20 .98 1.02 .88 .89			
1955-64 <u>1</u> /	1.10(.34) 1.18(.30)	96(.42) -1.68(.34)		
Pork: 1963 1965 1967 1969 1970 1972 1973	1.23 1.17 .87 .75 .71 .67			
1955-64	2.78(.16) 1.46(.16)	-1.83(.30) -1.76(.48)		
Poultry: 1963	.90 .73 .68 .49 .53 .37			
1955-64	3.10(.21) .56(.58)	-1.19(.77) -2.33(.87)		

Note: Numbers in parentheses are standard errors. $1/R^2$ less than .64.

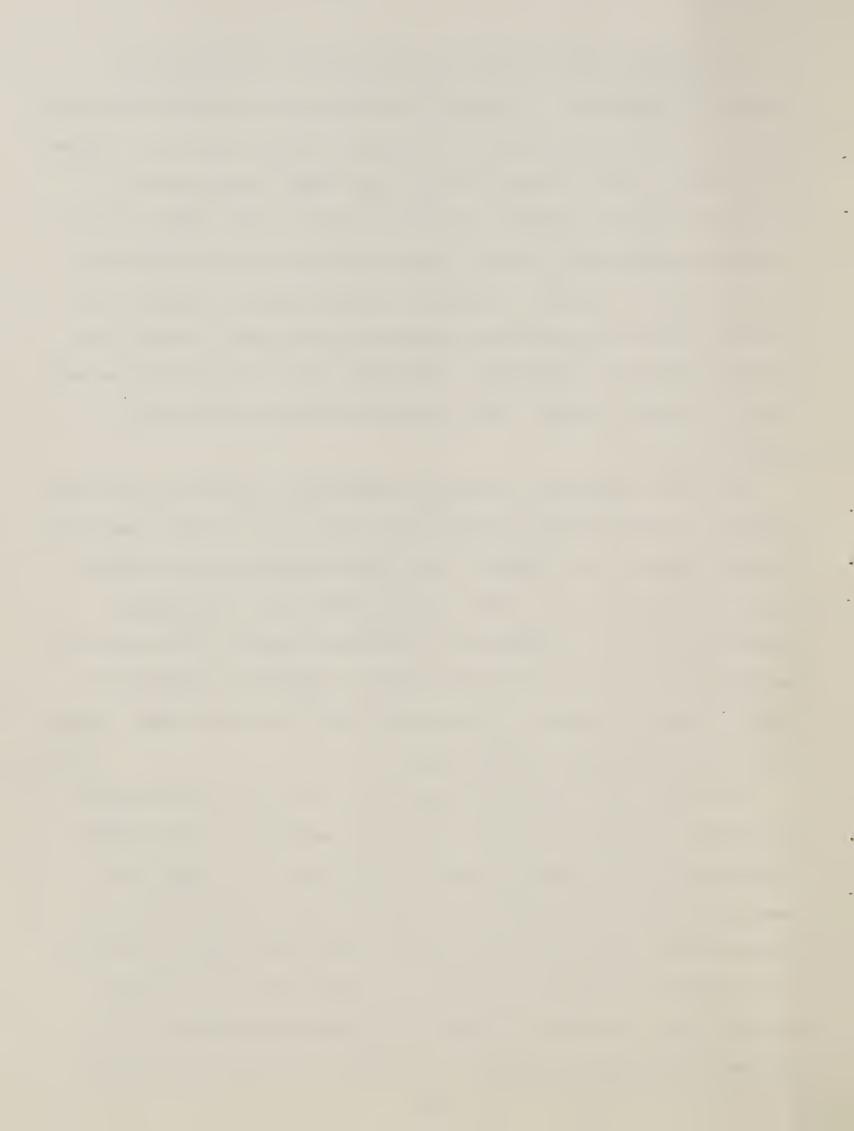
Source: Table 12, p. 69.



The downward trend in the West German estimates is complicated by problems of comparability. To establish consistency in methodology and variable selection, a statistical test was run using Kost's equation (32) and a revised data series for beef. The null hypothesis that demand functions were not changing over time was assumed. The equations were run with dummy variables to allow the coefficients to take on separate values for earlier (1955-63) and later (1964-71) periods. The results indicated that the equations for each period were not statistically different from each other, and thus, the null hypothesis was not challenged. Regressions were run separately over each period with similar results. This is contrary to what the West German studies indicate.

The studies conducted in the United Kingdom (53) and Japan (31) were more conducive to interpretation since they were carried out by the same respective Government agencies over a number of years where methodologies and variable descriptions tended to be the same. Income elasticities for the United Kingdom and Japan were determined from cross-section analysis, but time series was also used for Japan. Both studies measured consumption expenditures in volume or quantity purchased. Income elasticities for the major meats declined in both countries, except for beef (tables 2 and 3).

This can be partly explained during later years in the United Kingdom because beef consumption apparently became more sensitive to income changes when prices of close substitutes grew at a slower rate. Per capita beef consumption declined from 24 kilos in 1969 to 21.1 kilos in 1973 as retail beef real prices rose faster than other major meat prices, with the exception of lamb prices which grew at the same rate. Compared with the 12 percent decline in beef consumption, per capita pork consumption remained at about the same level but poultry consumption increased 18 percent which accounted



for most of the residual demand for meat. 2/ All of this occurred while real personal consumption expenditures (income variable) rose by an average 4 percent per year from 1970-73.

In the study of Japan, the income elasticities for meat also tended to conform to Engle Curve analysis. 3/ Statistical errors prevent a rigorous comparison of the results. According to the household surveys, the income elasticity for beef had been declining since the mid-1960's. Time series analysis indicates a strengthening of the beef income elasticity between an earlier period and since the mid-1960's. Whether there is a changing income elasticity based on time series is not clear. The estimate for 1955-64 is suspect because of a multiple correlation coefficient of less than $3 (R^2 < .64)$. In an earlier study, regressions estimates for a simular period (1955-62) also show a lower regression correlation. Better statistical results were obtained for regressions run over successively more recent periods (by one-year increments), 1959-68, 1960-69, etc., which resulted in an income elasticity increasing from 1.02 in 1959-68 to 1.18 in 1964-73. This tends to confirm a growing sensitivity (elasticity) of beef consumption to changes in income.

The time-series results are difficult to substantiate and appear contrary to historical data taken from the household surveys. The average annual rate of change in beef consumption (expenditure) slowed during the later period

^{2/} Together, per capita pork and lamb consumption decreased from 36.8 to 35.1 kilos, with lamb absorbing most of the loss, going from 10 to 8.4 kilos. Per capita poultry consumption increased from 10.1 to 11.9 kilos between 1969 and 1973.

^{3/} Based on a survey of households in cities with population of 50,000 or more.



(1964-73) and was less than the average rate of change in income, a reversal from the earlier period (1955-64). 4/ Other things being equal, this should dampen the income elasticity measurement rather than make it stronger.

Price elasticities—In theory, price elasticities should be higher when incomes are lower because consumers would tend to be more price conscious on a limited budget. On the other hand as incomes rise and consumers become more affluent, the budget constraint is reduced and changes in the price level would tend to be less important in determining consumption. Thus, one might expect smaller price elasticities as incomes rise. This theory, however, is difficult to substantiate for individual meats in the studies under observation.

No general conclusions can be drawn about the movement of direct price elasticities over time because of the mixed results. Direct price elasticities appear to be weaker for pork in more recent years in all three countries. Beef price elasticity was growing weaker in the United Kingdom but much stronger in Japan. The introduction of the broiler industry into the EC and Japan during the late 1950's and early 1960's makes a comparison of poultry elasticities between periods somewhat tenuous, as a quality change from hen to broiler meat would be expected to influence consumption. This effect was not effectively isolated in the statistical analysis.

Obviously, contervailing factors are affecting the direct price elasticity. The absolute elasticity value would tend to increase as substitutes become available. This occurs in particular when price relationships favor the substitute commodity. Availability may come from two principal sources; technology giving rise to new substitute products, and reductions of trade

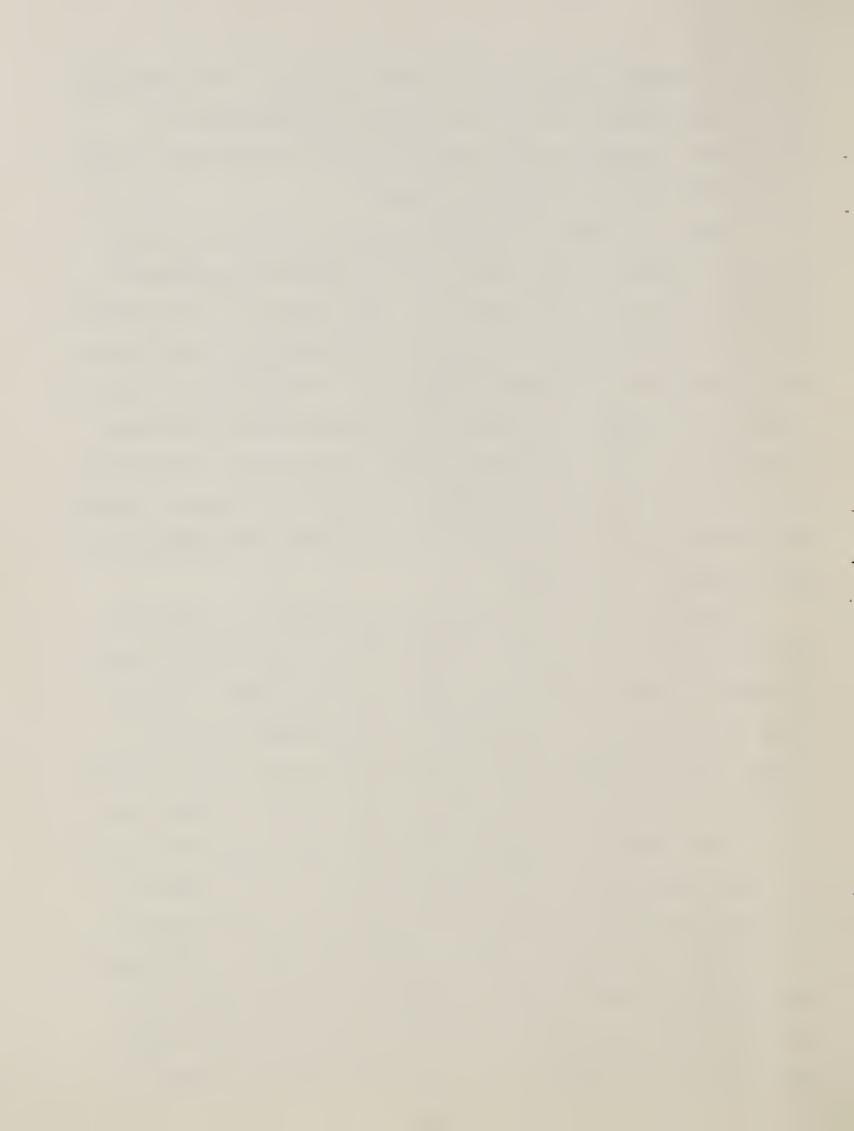
^{4/} All values were deflated.



barriers to increase availability of competitive products. The introduction of the broiler industry into the EC and Japan provided the means for substantially increasing poultry consumption, which, ceteris paribus, would compete with other meats (and fish in Japan).

In Japan, for example, time series regressions run over successfully more recent periods, 1959-68, 1960-69, etc., confirm the strengthening of the price elasticity for beef--from -1.62 during 1959-68 to -1.92 in 1963-72. This was unexpected because real incomes were increasing during this period, which theoretically should dampen price effects. One explanation is that the average rate of growth of per capita beef consumption declined during the later period (1964-73) due largely to strong price competition from poultry and pork and partly because of government controls on beef imports. Abundant and less expensive fish and fish products also tended to keep beef and other meat consumption at a low level.

Perhaps better elasticities could have been estimated if qualitative and other factors were explicitly accounted for. In particular, the effects of changes in prices of substitute products on the measurement of direct-price elasticities was not well documented. Elasticities estimated for Germany by Stamer/Wolffram (49) and Langen (34) indicated that by including cross-price estimates, the direct-price elasticity usually changes, albeit not by a large degree. As suggested above, cross-price elasticities should have been incorporated into the Japanese equations. A direct analysis of cross-price effects on consumption was not possible for the U.K. because of statistical error problems. Most of cross-price elasticity coefficients derived over the 1956-66 period were statistically insignificant, and all the coefficients of determination (R²) for the equations run over 1962-74 were also less than or equal to .47. The loss of degrees-of-freedom in



the estimation of cross-price elasticities probably caused the poor results in the U.K. study.

Demand Elasticities and Projections

In many cases, projection exercises have relied on past trends to estimate coefficients of major determining variables. Since it was not possible to determine whether direct-price elasticities were changing over time, it appears that estimates developed from time series analysis may be reasonable to use for projection purposes. Changes in such factors as controls on supply including marketing bottlenecks, improvements in quality, and availability of substitute commodities have to be taken into consideration. Livestock cycles can also be expected to influence elasticity measurements. 5/

Over time, the effect of price changes on total demand may be minimal when compared to the effects of changes in income levels, demographic structure, and personal preferences. This is not to say that prices will not influence consumer demand. Price relationships tend to allocate a consumer's income among alternative choices of food commodities. In this regard, cross-price elasticities are important, but unfortunately this is the measurement on which we have the least information. Some of the studies also indicated that long-term projections underestimated income elasticities because of expected increases in prices. The important relationships between direct-price and income elasticities have been accounted

^{5/} For example, in the equation for poultry in the United Kingdom 1969-74, the price variable accounted for only 19 percent of the variation in average monthly purchases when the data were adjusted for seasonal or annual shifts. The "price variable" explained 61 percent of the change in poultry consumption when seasonal and annual factors were included.



for in several of the studies. Other studies avoid this complex issue by assuming constant prices over the projection period.

The development of price and income elasticities for use in projections presents other problems. In the long-run, it appears that measurement of income elasticity is statistically more accurate and dependable than is the measurement of price elasticity. This may be the case only because we know more about the interaction between income and consumption than we do about the price/demand relationship. Nevertheless, long-run price trends are difficult to ascertain unless several years are examined. This has a practical disadvantage because continuous price series for many food commodities are not available over long periods in many countries. While not an extreme problem for the EC and Japan, it has been a limitation for many of the studies in the establishment of a viable base period for projections.

Another and somewhat more technical problem has to do with the use of least-squares regression which was the most common method of statistical analysis employed in the studies. Demand elasticities resulting from least-squares regression are usually calculated at the means over the historical period. Because an average is not always the best representation of reality, it is at times necessary to make adjustments based on other economic factors and statistical measurements. This is critical in making projections so as not to compound a historical misrepresentation several years into the future. Furthermore, policy alternatives would be quite different if based on elasticities determined at the mean or by elasticities determined for one point in time. The choice of the equation function



also is relevent. For example, the double logrithmic form assumes a constant elasticity over the range of data while the others do not.

In the final analysis, the analyst's preconceived ideas about future trends in consumption, income, and prices as related to past experience may be the decisive factor in the choice of elasticity coefficients to be used for projections of demand. With respect to the countries reviewed in this paper, there are important questions to be resolved concerning future demand for agricultural products. One must consider whether the European Community and, in particular, its Common Agricultural Policy will be successful in establishing common internal prices. Perhaps international political and economic pressures and claims of national sovereignty within the Community itself will override common objectives. We can also question the ability of Japan to maintain its high economic growth rate of the past decade, and thus, growing demand, when faced with a great dependency on foreign trade in an increasingly competitive world.



Multi-Country Studies

D. Elz

The study projects the import demand for oilseed products in the EEC for 1970. By using a derived demand analysis through livestock-feed and vegetable oil requirements the study sought to estimate food consumption levels. Demand elasticities were presented for the original EC-6 countries and were largely taken from other studies. However, income and direct and cross-price elasticities were calculated at the retail level for fats and oils (including butter) by means of regression for the period 1950-63.

Per capita consumption was measured in terms of quality, per capita income in deflated local currency, and retail prices were deflated.

Food and Agricultural Organization of the United Nations (FAO)

Three primary FAO projection studies cover the periods 1970 (12), 1970-80 (15), and 1975-1985 (14). Demand projections for food were based on population and income growth trends with prices being held constant. Under these assumptions, historical patterns during various data base periods were examined in order to develop income elasticities for individual food commodities. Use was made of national household surveys (cross section), time-series analysis of national per capita consumption and budget data, and international comparisons. Revised elasticities were used for the projection period to reflect expected deviations from past trends. Another FAO study presented demand elasticities for meat products in The World Meat Economy (13). Income estimates were adapted from a joint study prepared by the ECE/FAO. 6/ They were chosen after calculations by two methods -- one using covariance analysis of time-series data within each country combined with inter-country comparisons;

^{6/} Economic Commission for Europe/FAO, European Agriculture in 1965, Geneva (1961).



the other based on budget data.

In addition to the above studies, the Committee on Commodity Problems (CCP) examined specific aspects of agricultural demand and supply as a result of the 1971 projection study (15). In FAO/CCP report No. 5 (18), actual versus projected demand levels were compared for 1968. The 1967 FAO study (14) was used for this purpose as it was published before 1968 data could be incorporated into the analysis. Because the 1967 study assumed constant prices, it was necessary to account for the effects of actual price changes on demand in order to make the projected and actual outcomes comparable. Direct-price elasticities were chosen to correspond to and used to modify the projections made in the 1967 study. Most price elasticities were taken from other sources and only a few products were compared in this manner. Of the latter, price elasticities chosen for poultry meat were relevant to this paper. 7/

FAO/CCP report No. 6 (19) examined the economic implications of the entry of the United Kingdom, Ireland, Denmark, and Norway into the EEC before these countries were formally accepted as members. In contrast to earlier studies where prices were held constant during the projection period, this report examines alternative price assumptions for the same period "reflecting different possibilities of price adjustment after an enlargement of the EEC."

Producer prices were assumed to remain at 1969-70 EEC levels to 1980:

consumer prices were adjusted according to three alternative approaches. For
the purpose of projecting future demand under the assumption of changing
prices, both direct and cross-price elasticities were examined along with

^{7/} Only those elasticities which were calculated by the FAO are represented in the tables as originating from the CCP reports.



income effects. Demand elasticities were taken from existing studies, while a few were computed by the FAO. The major assumption of the study is that all four countries would become members on similar terms and conditions including the acceptance of the EEC Common Agricultural Policy and the system of prices as it was in the year 1970.

F.H. Gruen

For this study on supply and demand projections of agricultural products in Australia, the authors developed demand elasticities for several countries in order to analyse international trade prospects. Income elasticities were derived assuming constant prices. Estimates were based on various FAO and country publications, but mainly reflect the results of the 1962 FAO projection study $(\underline{12})$. However, FAO elasticity numbers were estimated for commodity groups while the Gruen study estimated income elasticities for individiual commodities.

W. Kost

Based on data covering 1955-68, a series of least-squares regression equations were run for France, Germany, and Italy in order to develop coefficients to be used for a demand and supply model of the original six EEC countries. As a result of the exercise, several income and price elasticity coefficients were generated. While not all the equations have high coefficients of determination, they represent the best in a series of demand equations. Retail price data was taken from individual country sources (usually national account statistics), "income" or total per capita consumption expenditures from the IMF, and food consumption data in volume from Agricultural Statistics (Statistical Office of the European Community).



H.B. Krohn

This study of demand for food in the EEC includes a presentation of "apparent" income elasticities for the original members of the Common Market for the 1958-1970 period. From a translation of the work, it appears that calculations were done for each country to project 1970 consumption levels using income elasticities developed from family budget surveys, time series, and international comparisons around 1960. In order to make the individual projection results comparable, the author decided to estimate so-called "apparent" elasticities by calculating the differences between known 1958 and projected 1970 consumption levels and relating them to projected changes in incomes between the two years. Therefore, the "apparent" income elasticities were not the ones used for the initial projection calculations, but served to compare demand responses to changing incomes in the countries of the EC-6 up to 1970. For purposes of calculation, per capita consumption was measured in quantities and income in terms of total per capita consumption expenditures.

Michigan State University, Institute of International Agriculture

Two MSU publications are included in this paper. The first one by Sorenson and Hathaway (48) presented income and price elasticities for the original six members of the European Economic Community. The approach to estimating the elasticities was best described by the authors.

These elasticities were arrived at through compilation of elasticities in available studies that have attempted to directly measure income-consumption response or have used income elasticities for projection purposes. These, in turn, were compared with several studies in the United States that were done with data reflecting income levels close to those that will apply in the EEC during the



projection period. On the basis of these two sets of data and also reflecting known taste patterns and levels of consumption, the assumed elasticities only partially repeat values used in the other studies. In general, the elasticities used tend to be somewhat lower that in prior studies....

Optimally, estimates of the price effect on consumption of a commodity or groups of commodities should rely on a fully specified matrix of price and crossprice elasticities that encompass total consumption. Further, these should be based on estimates of consumer level price shifts. Since neither of these sets of data are available for European countries, an approximation based on data that are available became necessary. Retail price shifts are estimated from price data that apply at the farm level plus estimated marketing margins. Price elasticities were developed using limited European sources and information from compilation studies done in the United States. (pp.51-54)

The second study conducted at MSU by Ferris and others (9) employed other analytical techniques to develop demand elasticities. A study of trade, supply, and demand for livestock and grain products was made for the United Kingdom, Ireland, and Denmark with regard to their prospective entry into the EEC. Normative and predictive models were developed to analyse price and policy changes likely to occur with the entry of these countries into the EEC.

Time-series analyses were conducted for each country in order to generate elasticity coefficients to be used as a basis for the demand matrix of the projection model. A series of five different demand functions for each commodity were calculated from base period data covering 1955-1968 (for Denmark, 1954-68). Using least-square multiple regression, consumption was linked to nominal retail prices and total per capita expenditures. In some cases cross-price effects were measured, especially those for meat products. From this analysis, the authors chose the "best" regression equations which in turn yielded the elasticity values used in the demand matrix.



Price elasticities for oatmeal, margarine, and poultry in the Denmark production model were taken from the Aarthus University study (1) which had more success in isolating price effects for these products. The Durbin-Watson (DW) values were generally high for the U.K. demand equations and low in the equations for Ireland. In both cases, no attempt was made to correct the DW statistics since it was thought that this would not bias the partial coefficients. Where cross-price effects were not generated directly from regression analysis, they were derived from an examination of price changes and household budget constraints. Cross-price elasticities for non-foods were estimated by applying a zero-degree homogeneity assumption. Organization for Economic Cooperation and Development (OECD)

Supply and demand projections for 1975 and 1985 were calculated for each member country. Major assumptions included constant prices and no changes in economic policies. Income or so-called "composite" elasticities were estimated for several commodities. For purposes of measurement, the elasticity coefficient related changes in per capita consumption of each product to the trend in income. Consumption data was taken from food balance sheets, and per capita private consumption expenditures from national income statisitics. While the analysis covers the 1955/56-1966/67 period for most (1960/61-63/64) countries and products, the 1961-63/base period was chosen for comparability with FAO projections. Elasticity numbers were adjusted for use in projections in cases where coefficients developed from historical analysis were considered unrealistic for projection purposes. Also, equation functions were sometimes changed for the projection period if the demand structure was assumed to be different in the future.

D.W. Regier

Estimating equations for five major European meat importers were



calculated by regressing per capita meat consumption on the index of per capita consumption expenditure and on the index of price of meat received by the farmer. Consumption expenditures were chosen instead of disposable income because the latter was not readily available. Value terms were deflated by the consumer price index (1960=100).

A.Weber

Several regressions were run for meat products in five West European Nations. Demand analysis was conducted for various cuts of beef, veal, and pork, and for poultry during the 1950-58 period. As translated, per capita consumption is in physical quantities and income is measured as per capita consumption expenditures. Prices are at retail and both price and income were deflated at 1954 values.



Individual Country Studies

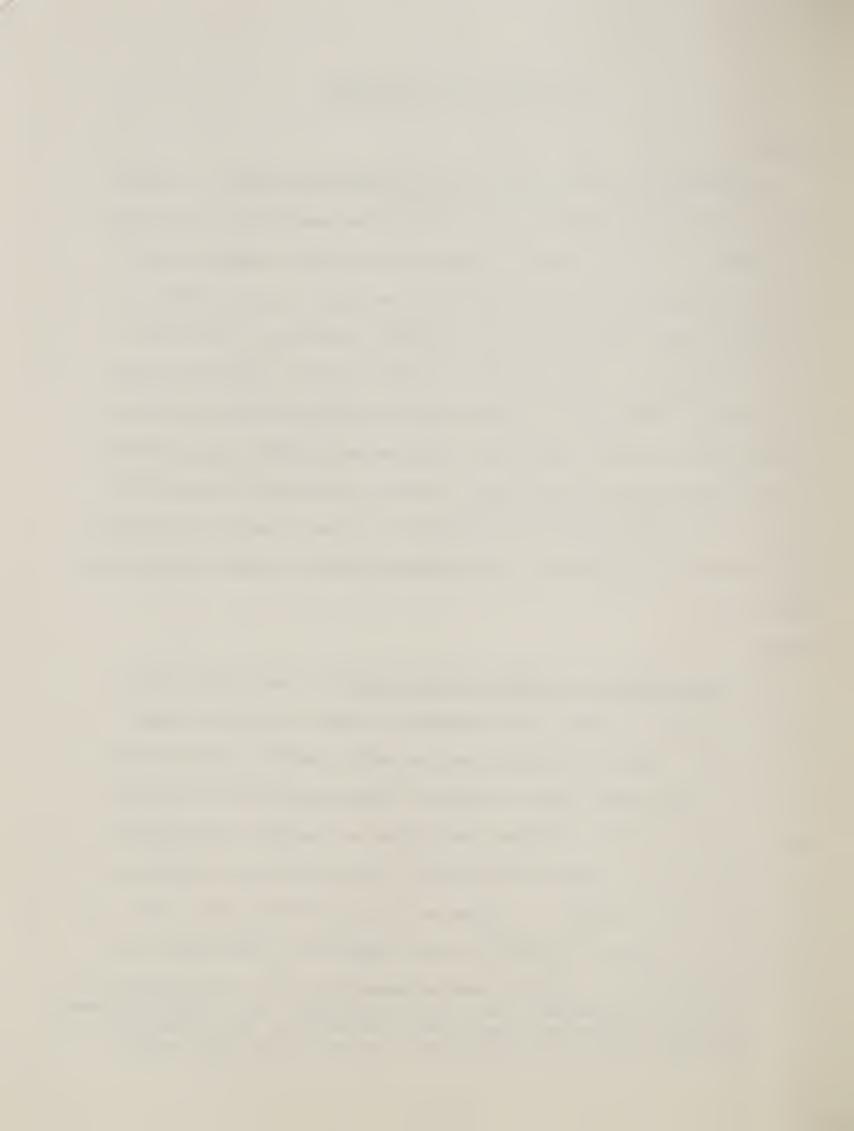
Belgium

Studiecentrum voor Economisch en Sociaal Onderzoek (SESO) --A demand and supply projection study of food in Belgium was conducted by the Center. Income and price elasticities were estimated for several commodity groups including meat and fish. Data from 1953-64 was taken to run a series of regressions using single and double logarithmic equations. In the first set of equations, per capita consumption expenditure for a particular meat is regressed on total per capita consumption expenditures using double-and single-log forms. In a second set of equations using double-log functions, per capita consumption was regressed on income (from National accounts) and real price. Several regressions incorporating prices of substitute products were attempted but failed due to high milticollinearity among the explanatory variables.

Denmark

Aarhus Universitets Okonomiske Institut (AUOI) --This study of agricultural products in Denmark was undertaken to project supply and demand for 1970-1980. Both cross-section and time-series analysis were employed to develop demand elasticities for 1963-65 (cross section) and for 1953-65 (time series). One set of income elasticities was based on cross-section data, however, due to several deficiencies in the elasticities obtained in the cross-section analysis, income and price elasticities were also estimated from time-series data. 8/For many commodities, cross-section and

^{8/} The cross-section analysis underestimated the "true" income elasticity; a similar bias was not found in the time-series. Also, since only wage and salary earners were used in the cross-section, the population is not "typical." Over 750 households were included in the final analysis.



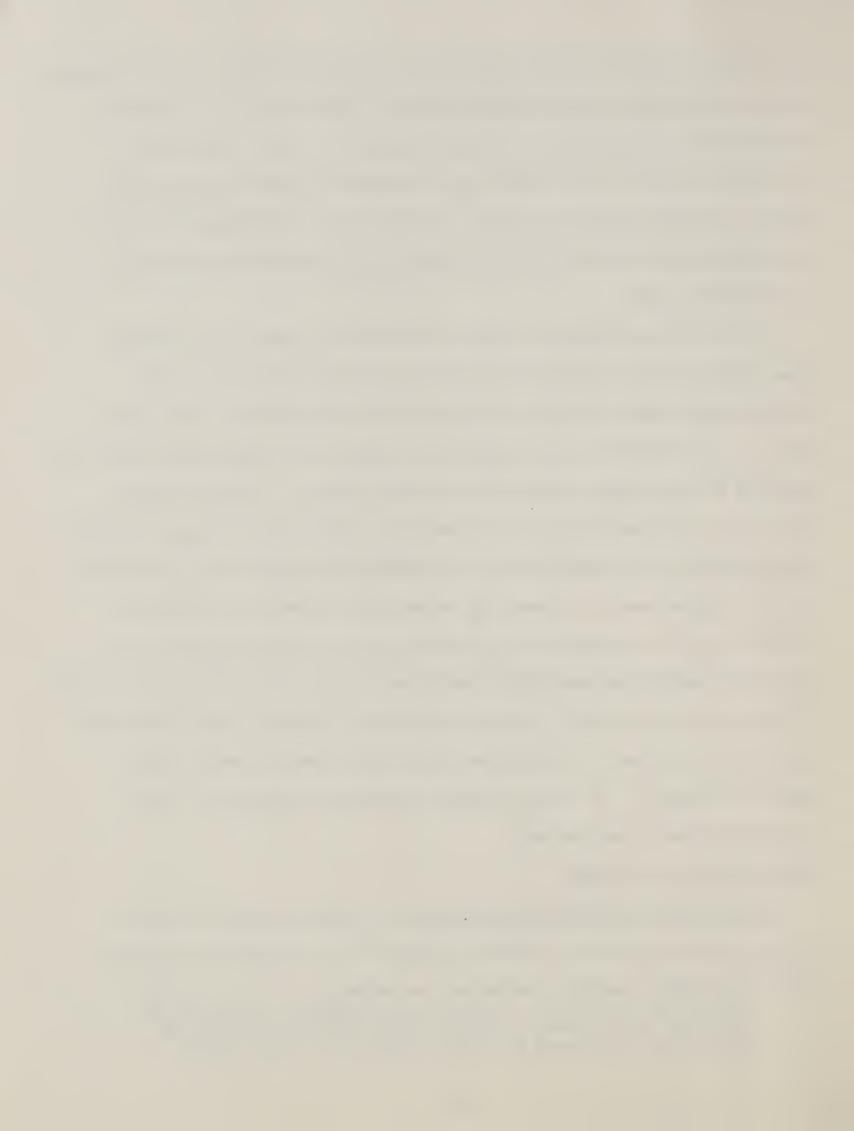
time-series data were not fully comparable because definitions of food categories differed, and because cross-section consumption was measured as expenditure and time-series consumption was mostly measured in volume. Furthermore, the income variable in the cross-section analysis was based on disposable income (including savings and private profits) while the comparable measure in the time-series analysis was total per capita consumption expenditures (at constant prices).

In both cross-section and time-series analysis, demand was estimated using single equation, least-squares regression. For time series, six different logarithmic functions were used for most commodities. The cross-section study relied on a semi-logarithmic function for regression calculations (implying a lower income elasticity at higher incomes). The final demand elasticities used for projection purposes were derived from a further analysis and comparison of the cross-section and time-series results except for poultry in which further analysis showed high correlation between the explanatory variables. 9/ The equations for projecting beef and pork consumption used price relationships between close substitutes instead of a direct price variable. It appears that this was an attempt to derive an acceptable income elasticity measurement to be used for projection rather than develop a better pricedemand relationship. In both cases multicollinearity between the income and price variables was reduced.

Federal Republic of Germany

Institut fur Wirtschaftsforschung (IFO) --Long-run demand and supply of agricultural products was examined through 1975. Time-series regression

^{9/} As a result, poultry consumption was assumed to grow at 3 percent annually in the future. The time-series regression analysis for skim milk and buttermilk were not statistically significant and consumption projections for these products were also assumed.



analysis of demand was done for the 1950-1964 period to determine the factors most likely to influence food consumption in Germany. Per capita private expenditure (deflated) was selected as the determining factor as it explained more than 70 percent of consumption of most commodities. The first projection exercise to 1965 (1957-60 base period) was then run using expenditures as the only explanatory variable. A second set of income elasticities was estimated for comparison which represented the "real development" of demand between 1957/60 and 1961/63. In most cases, the first set of elasticities resulted in a good tracking record.

A revised set of income elasticities was then calculated for the 1970 and 1975 projection period, using a 1961/63 base. The revised set was reinterpreted and adjusted in the light of the movements of certain price series to give a more comprehensive interpretation of factors affecting consumption than the unadjusted set. The income elasticities for beef and pork were not significantly revised, indicating a strong income effect on consumption even after including a price variable. Income elasticities for poultry and eggs were revised downward from the original estimates because the rate of increase in consumption had declined the last few years before the study was completed. Milk and milk products were assumed to remain at constant levels of consumption.

H. Langen —The author undertook an extensive analysis of demand for agricultural products in West Germany. He ran several regressions on meat and dairy products for different periods from the early and mid-1950's through the mid-1960's. Some of his results are also found in Plate's work on West German agriculture (43). For the regression, he measured income in terms of per capita disposable income (national accounts) deflated by a general



cost-of-living index (1958=100). Consumption was measured in terms of per capita quantity consumed using weighted averages of different cuts of meat: for beef, 66 percent was considered "roasting beef" and 34 percent as "stewing beef"; and pork was divided into "cutlets" (9.5 percent) and "pork belly" (21.8 percent). 10/ Prices were at retail and also deflated by the cost-of-living index. Prices for total beef and pork were determined by a weighted average price of the various cuts.

R. Plate. -- The author has conducted a considerable amount of demand analysis on agricultural products in Germany. In volume I of his Agrarmarktpolitic (43), the author compiled lists of demand elasticities taken from several German authors including Gollnick and Maciej (24), Hesse (27) (28), Langen (34), Stamer and Wolffram (49), and Wöhlken (57). In volume II of the same work, Plate examined the development over time of income and price elasticities and any discernible trend in the demand for meat. He maintained that in West Germany, in the course of the decade and a half from the early 1950's to late 1960's, income elasticities of demand for meat products declined by half, and price elasticities in a similar proportion.

H. Stamer and R. Wolffram -- The authors published an extensive analysis of the demand for agricultural products in West Germany during the 1950's and early 1960's. Regressions on time-series data (1950-62) were run using a marketing year (July-June) as the basic time frame. One result of the regression analysis was that in most equations the coefficients of cross-price effects were not statistically significant.

^{10/} Presumably, the remaining 68.7 percent of pork is in the form of processed pork products such as ham, bacon, etc.



Real income was measured as per capita disposable income of private households and non-business organizations. Retail prices were developed from marketing surveys of four-person, worker households and other sources. Both income and prices were deflated by the general cost-of-living index (1958=100). Per capita consumption was measured in volume.

France

Centre de Recherches et de Documentation sur la Consommation (CREDOC) — Using data from time-series and cross-section studies, the CREDOC report undertook and analysis of food consumption in France. The study made use of Engle curve analysis to determine income effects and conditional regression analysis to measure the effects of prices on consumption. The results of these two exercises were combined to establish projection trends in food consumption to 1970 and 1975. In order to determine the effect of income, the study used a 1956 consumer survey of 22,800 farm and non-farm households across the country. 11/ Three different semi-logarithmic forms were employed in the regression of per capita household expenditures on expenditures for several food groups.

Time-series data for the 1952-61 period was utilized in the conditional regression analysis of first differences of logarithms. Price elasticities of major commodity groups were calculated by regressing per capita consumption expenditure (at constant 1956 prices) on real prices. Conditional regression was also applied to individual commodities to determine individual

A 1955 household survey was used for measuring poultry consumption and income levels.



price effects, expecially for meat products. The results of this analysis were further examined and elasticities were chosen for the projection.

These are presented in the tables as "a priori" or assumed price elasticities.

H. Faure --This article on the demand for red meat products in France employed an extensive econometric analysis. Demand functions were run for beef, beef and veal, and pork, using standard double-log, distributed-lag and conditional regressions covering the period 1952-64. Per capita consumption in volume was taken largely from the work done by CREDOC (5). Income data was from the government sources in terms of total per capita consumption expenditures, expressed in current prices using a Paasche index. 12/ Retail prices were derived from a weighted average of various cuts in each meat category and deflated at 1952 prices by the consumer price index.

A. Fouquet --This study, as a form of working paper, derived demand elasticities used for projections of food consumption in France for the period 1965-75. The author examined time-series data (from national accounts), household budget surveys for the years 1956, 1959, 1963, 1965, and 1966, and international comparisons. Together this information was used to develop short-run and long-run income elasticities and direct-price elasticities for individual food products.

Ireland

No individual country studies were found for Ireland. In many cases, the demand analysis for food consumption in Ireland has been incorporated into the analysis for the United Kingdom. Only the Ferris/MSU study (9) and an

^{12/} Weighted aggregative index for a given year.



OECD country report (39) presented separate analysis for Ireland. In both studies, as with other multi-country studies, methodology and variable description are generalized for all countries (see Multi-Country Studies). Italy

<u>V. Cao-Pinna</u> 13/ --Both time-series and cross-section data were utilized for the historical demand analysis. Time-series information was based on national agricultural production and trade statistics which provided per capita availabilities for individual commodities. Cross-section analysis was based on a number of sample surveys conducted in the 1950's by various agencies and institutions in Italy. In particular, several regressions were run using data from a 1953 sample survey of 1,500 family budgets for all economic classes and regions of the country. These were calculated with per capita consumption measured in volume and expenditure.

Food demand projections were calculated for 1965 and 1970 in terms of expenditures for food and total expenditures (income) using 1955-57 as the base period. Income elasticities were estimated by an index using per capita and total population statistics. The resulting "apparent" elasticities were used for projection. 14 Only elasticities based on per capita consumption are listed in the tables in order to make them more comparable with the results of other studies.

<u>D. Phillips</u> -- The author estimated demand elasticities for beef and pork for Italy during the 1956-67 period. Two demand equations were calculated for beef and one equation for port. Stepwise, multiple linear regression was used to compute the coefficients from double-logarithmic

^{13/} A later study by Tsu and Koenig (52) is based on Cao-Pinna's work and is in English.

^{14/ &}quot;Apparent" elasticity = change in food expenditure index change in total expenditure index



functions. Consumption was measured in terms of kilograms per capita, income in terms of per capita total consumption expenditures (at 1963 prices), and retail prices deflated by a consumer price index. Consumption and income data were taken from OECD publications and price information was based on Italian statistics.

The income elasticity of demand for beef was found to be quite high.

Consumer income would appear to exercise the dominant influence in determining beef consumption and the partial correlation coefficients of the income variable support this contention (0.82 and 0.95 for the two beef equations).

Direct-price elasticities for beef and the cross-elasticity for beef with respect to the price of pork were found to be statistically not significant.

All explanatory variables appeared to be significant for pork demand.

N. Filippello --In an unpublished Ph.D. dissertation of the Japanese livestock economy (10), the author undertook to construct a recursive econometric model. A total of 22 equations (10 of these being identities) were developed to measure supply and demand relations for the 1953/54-1964/65 period. Using three-stage, least-squares regression, he calculated demand flexibilities 15/ (for meat, eggs, and fish) and demand elasticities (for milk only). Filippello noted that the lack of degrees of freedom, as well as correlations between variables, made the estimation of cross elasticities difficult and, in many cases, impossible.

In a later study (11), based in part on the above work, the author developed an econometric model of Japan's grain-livestock economy. While

^{15/} Demand function in which price is the dependent variable.



using data from 1951-1965 to develop structural relationships, the model was primarily developed to be representative of future economic relationships between 1965 and 1980. Because of this, demand elasticities were not calculated directly from the earlier period but were generated from the projection model. Elasticities were estimated for the base year (1965) and the last year of the projection period (1980). In both studies, consumption figures were measured in volume, income was equal to total national income (deflated by a consumer price index), and prices per kilogram were at wholesale deflated by a consumer price index in the earlier study and by a wholesale index in the later study (1960 = 100).

Japan, Ministry of Agriculture and Forestry—A publication by the Ministry titled, "Analysis of Food Demand", was a comprehensive report utilizing cross-section and time—series analyses. Cross—section data was taken from a nation—wide "Income Level Differentiated Family Budget Survey" comprising 16 income categories. In the cross—section analysis, income was expressed as per capita household expenditure. Consumption was measured either as household expenditures for food groups or in volume per household for individual commodities. 16/ The cross—section demand functions were computed using a weighted least—squares method after deleting the top and bottom income categories. Primarily, semi— and double— logrithmic functions were employed. All values were in nominal terms.

Time-series analysis was based on data from the "Family Budget Survey".

Income was in terms of per capita consumption expenditures (deflated), and consumption was expressed on a per capita volume basis. Prices per item

^{16/} The cross-section elasticities in the tables are based on the consumption variable measured in volume.



were derived from an average "annual purchase value per household" deflated by a consumer price index, $1970 = 100 \cdot 17$ Double-log functions were computed using ordinary least-squares.

Netherlands

Agricultural Economics Research Institute (AERI)—This was the only country study found for the Netherlands. The report relied on future consumption estimates from the Central Planning Bureau. 18/ The AERI report did, however, perform its own historical demand analysis by means of balance sheets on a raw material basis for a 9 to 10 year period (1955/56 - 1964/65). It also described the basic methodology applied by the Central Planning Bureau in its demand analysis and forecast of "main use" food items. Alternative estimates for beef and veal elasticities were made by AERI because of unsatisfactory estimates from the Bureau's study.

United Kingdom

<u>D. Edwards and B. Philpott</u>—Demand and supply analysis for meat products in the United Kingdom was conducted for purposes of projections to 1975. Since only one of the income parameters (in the beef equation) was statistically significant at the one percent level, the authors decided to rely on other studies for the remainder of the income elasticities. Income elasticities were adopted from an earlier study by Matheson and Philpott (<u>36</u>) for poultry, pork and non-carcass meats, and from the annual U.K. food consumption survey (<u>53</u>) for lamb and mutton. Price elasticities were estimated for the 1955-63 period using the U.K. data base. A price matrix was developed for direct—

^{17/} Based on retail prices in cities over 50,000.

The Dutch Government agency responsible for forecasting work. The AERI report is based on <u>De Nederlandse Economie in 1970</u> (The Dutch Economy in 1970), The Hague, Sept. 1966.



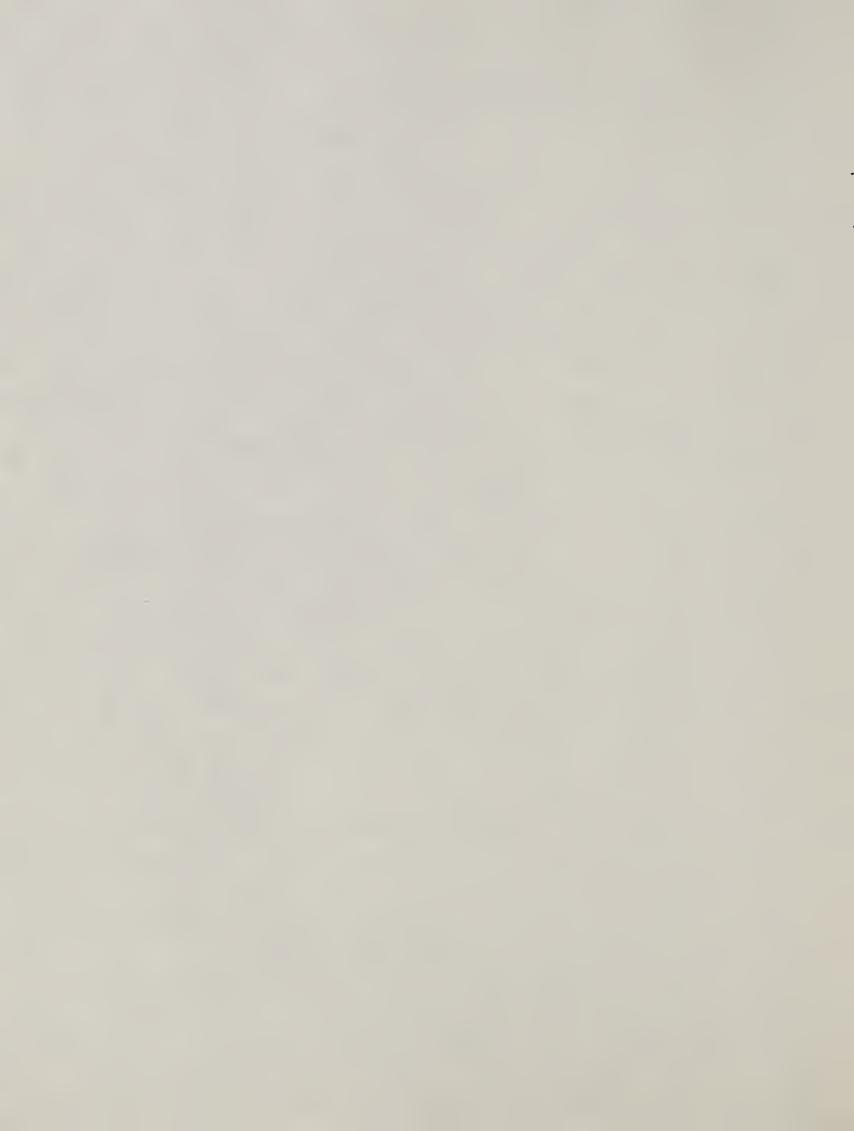
and cross-price elasticities by simultaneously solving the five meat demand functions. Prices were measured at retail in deflated values.

Oxford University, Institute for Research in Agricultural Economics—
Two projection studies conducted by the Institute were reviewed. The earlier study by Clark and others (40) projected demand and supply (including imports) of agricultural products for 1965 and 1975 under alternative population, production, income, and price assumptions. Income elasticities were based largely on those calculated by the U.K. food consumption survey (53) in 1958 and modified by comparisons to other budget data and time-series analysis. Price elasticities were developed from data of the same U.K. report and from pre-war times series of Stone 19/ and others.

The second Institute report by Jones and others (41) was a revision of the above study and estimated new projections for 1970, 1975, and 1980, based on the 1958/59 - 1963/64 period. In this study more food items were considered than in the previous study (29 as opposed to 21) and a more detailed demand analysis was made of individual food items. Again, cross-section and time-series information were used to estimate demand elasticities for the projections. For both studies, prices were measured and deflated at the retail level.

United Kingdom, National Food Survey Committee—The government has been publishing an annual report on food consumption and expenditures of private households based on monthly surveys. Income elasticities were derived from cross-section analysis of different household groups in the United Kingdom. A weighted average of the demand variables by household groups was calculated and double-logarithmic regression fitted to this data. The demand

^{19/} Consumer's Expenditures and Behaviour in the United Kingdom, 1920-38.



elasticity estimates were computed for consumption based either on household food expenditures or on volume purchased. 20/ The income variable was defined as "declared net family income" which was estimated by the housewife in the survey. The "income" figures were generally considered to be under-estimated.

The Committee periodically conducts a more comprehensive demand analysis which includes estimations of price elasticities. Time-series analysis utilized average monthly prices paid for commodities and average quantities purchased over periods of six to eight years. Double-logrithmic regressions were fitted to this data which was seasonally adjusted. Further statistically analysis was conducted to isolate seasonal and annual shifts and provided a criteria for choosing the most reliable direct-price elasticity. Cross-price elasticities were calculated by simultaneous solutions, but in most cases the results were either not statistically reliable or did not explain very much of the variation in consumption. All prices were deflated by the Index of Retail Prices.

I.M. Sturgess and R. Reeves—This is a study of potential markets for cereals in the United Kingdom in which livestock was considered a direct end—use for cereals (i.e., livestock feeds). Future consumption of livestock products was examined as a check on the projection estimates for production and also to have an idea of consumption levels based on forecasted price changes when the United Kingdom became a member of the Europlan Economic Community. The study assumed that the U.K. would join the EEC during the 1972/73 season (June/May) and that its agricultural prices would be at community levels by 1977/78.

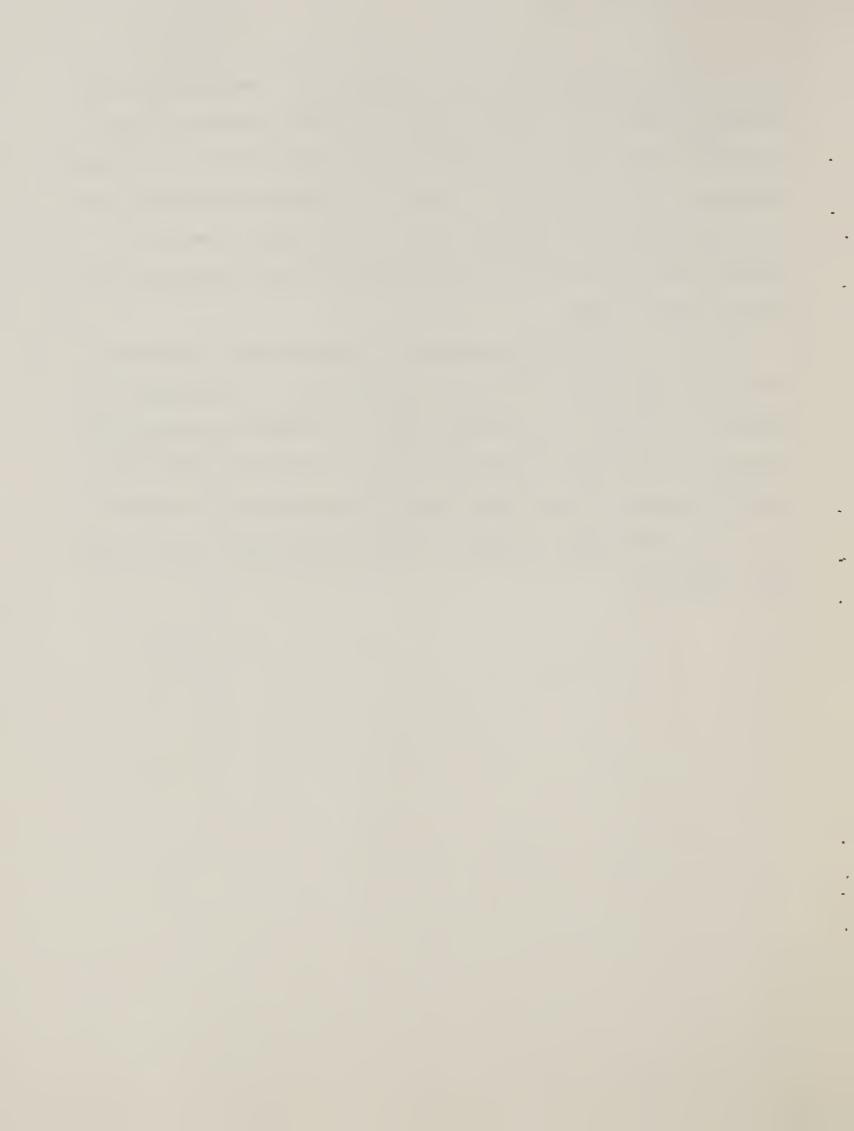
Demand elasticities were developed for livestock products for the 1969/70 - 1977/78 period. These were "a priori" elasticities based on estimates drawn

^{20/} Only "quantity elasticities" are presented in the tables.



from various sources and converted to a common base. Use was made of the homogeneity condition to constrain the direct-price elasticities for any one product while cross-price elasticities were constrained by the symmetry condition. Income was measured as per capita consumption expenditure and prices were measured at the retail level. Other variables used in the analysis include the price of other (non-livestock) food products and the price of non-food items.

Some of the price elasticities may be considered high. The reasons given in the report were that the price elasticities: 1) represented the effect of progressive (and foreseen) changes in prices; 2) included price changes for institutions and catering services as well as household consumption (assuming that the former are more sensitive to price changes); and 3) reflected changes in prices of processed foods which tend to be more price sensitive.



Reference Information

Source--refers to the publication cited in the "Reference" and the date of publication in parentheses.

Time period--gives the years covered in a time-series or cross-section study. "Historical" includes either the period of regression analysis or the base period of a projection.

Statistical Information

Equation -- equation function used in determining elasticity coefficients and/or projecting future consumption. The abbreviations signify the following:21/

L - linear function; all variables expressed in linear measurement.

Example y = a + bx

Elasticity = bx/y

SL - semilogarithmic; one side of equation expressed in logarithms while the other is linear.

Example $y = a + b \log x$ Elasticity = b/y

DL - double-logarithmic; all variables expressed in logarithms.

Example log y = a + b log x Elasticity = b

LI - log-inverse; a semi-log function with the independent variable expressed as a reciprocal.

Example $\log y = a - b/x$ Elasticity = b/x

LLI - log-log inverse; a double-log function except that one independent variable is a reciprocal.

Example $\log y = a - b \log x - c/x$ Elasticity = c/z

Inv. - inverse; a non-linear function with the independent variable expressed as a reciprocal.

Example y = a - b/x

Elasiticity = b/xy

R²--coefficient of determination for the regression equation. Numbers with a bar over the top are coefficients corrected for number of degrees of freedom.

Coefficient and standard error-the regression coefficient for income and price variables are given if available. The standard error of the regression coefficient is in parentheses.

Formulas are assumed to be in natural logarithms.



Commodities

Meats

- Beef includes fresh and frozen beef and veal products unless otherwise indicated.
- Pork fresh pigmeat products unless otherwise indicated. Ham and pork sausage products are usually excluded from this category.
- Poultry mostly chicken, but could also include turkey, duck, geese, and other edible foul.
- Mutton Mutton, lamb, and/or goat meat.
- Total meat usually includes offal, horse meat, etc., but also may include sausage products, canned meat (principally ham), bacon, or other processed meat products.
- Fish fresh and frozen fish and fish products which may include shellfish.

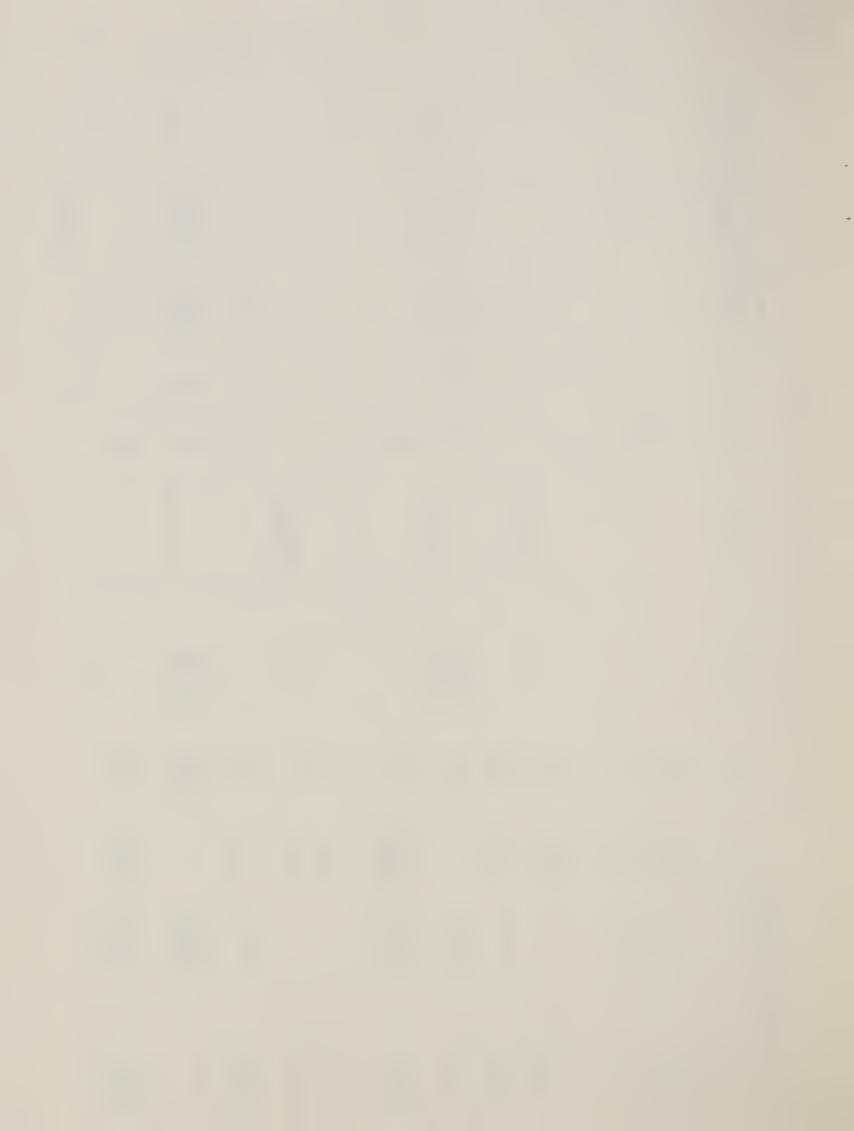
Dairy

- Eggs usually includes only that used for direct human consumption although farm and industrial use may also be included in some cases.
- Whole milk covers a wide range of terminology including liquid, fluid, fresh and bottled milk.
- Butter measured in milk equivalent or by fat content.
- Cheese in most cases includes cheese products from all milk producing animals.
- Other milk refers to milk products not considered in above categories. Commodities most common to this area are condensed, powdered and skim milk, cream, soft cheese (i.e., cottage and creamed cheese), yogurt, etc.



Demand elasticities for

imformation Time period	n eriod :		Elasticity				statistical	L B	l E
orical	Historical Projection	Income	Own-price :	Cross-price	:Equa- : tion :	R ² :	Coefficient Income : On	& standa	rd error : Cross-price
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1959-61	1980	.70			SL				
	1970	.65						,	~ ~ ~
	1970-75	. 70	70						
1961-63	1975-85	. 49			LI	.58	55.5(14)		er e
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1961–63 1964–66	1975-85 1970-80	.30			SL			Transfer Control (Control	SHE SIZE
-	1970	.28		·					. 35/.
	1970-75	.45	30	.10 beef					
1961-63	1975-85	. 28			TS T	.21	.05(.03)		
1950-58 1950-58 1950-58		1.51 1.19 1.33	$\frac{5}{4}/04$ $\frac{5}{4}/90$.49 stew keef	ה ה ה ה ה	.85 .88 .89	1.51(.3) 1.19(.2) 1.33(.3)	-1.04(.4) 90(.3) 59(.54)	.46(.65)
1961–63 1964–66 1962–68	1975-85 1970-80	80.	- 82	-	SL				
		77		The wind of the second					-



--Belgium: Demand elasticities for meat products, continued Table 4

mation	t & standard error Own-price : Cross-price			2: € [NO .:	ा इस	-2. 8	 	SIML 7 M1.	· · · · · ·	1			(.14)	(16)68
Statistical information	: Coefficient &			264.4(59)				; 55(; 2 <u>1)</u>		•		1,250(44)	70(8)	.90(.11) .26(1.10(.1) 34,162(1,761) 1.09(.04)
	. R ²			99.				37				66.	87	96.	18/12/18
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.:	Cross-price	۰.	.20 beef	.:						•					
Elasticity of:	Own-price		-1.01		- -				<u> </u>	-				26	
	Income :	1.31	1.00	2.30	. 50	09.	.17	09.	.30	.08	09· . 44.	1.33	.62	06.	1.10
rfod	Historical Projection	1970	1970–75	1975-85	1975-85 1970-80	1980	1970	1975-85	1975-85 1970-80	1970	1970 1975-85 1970-80		1975-85		1970-75
Reference information	storical.			1961-63	1961-63 1964-66	1959-61		1961-63	1961–63 1964–66		1957-59 1961-63 1964-66	1950-58	1961-63	1951-62	1953-64 1953-64 1953-64

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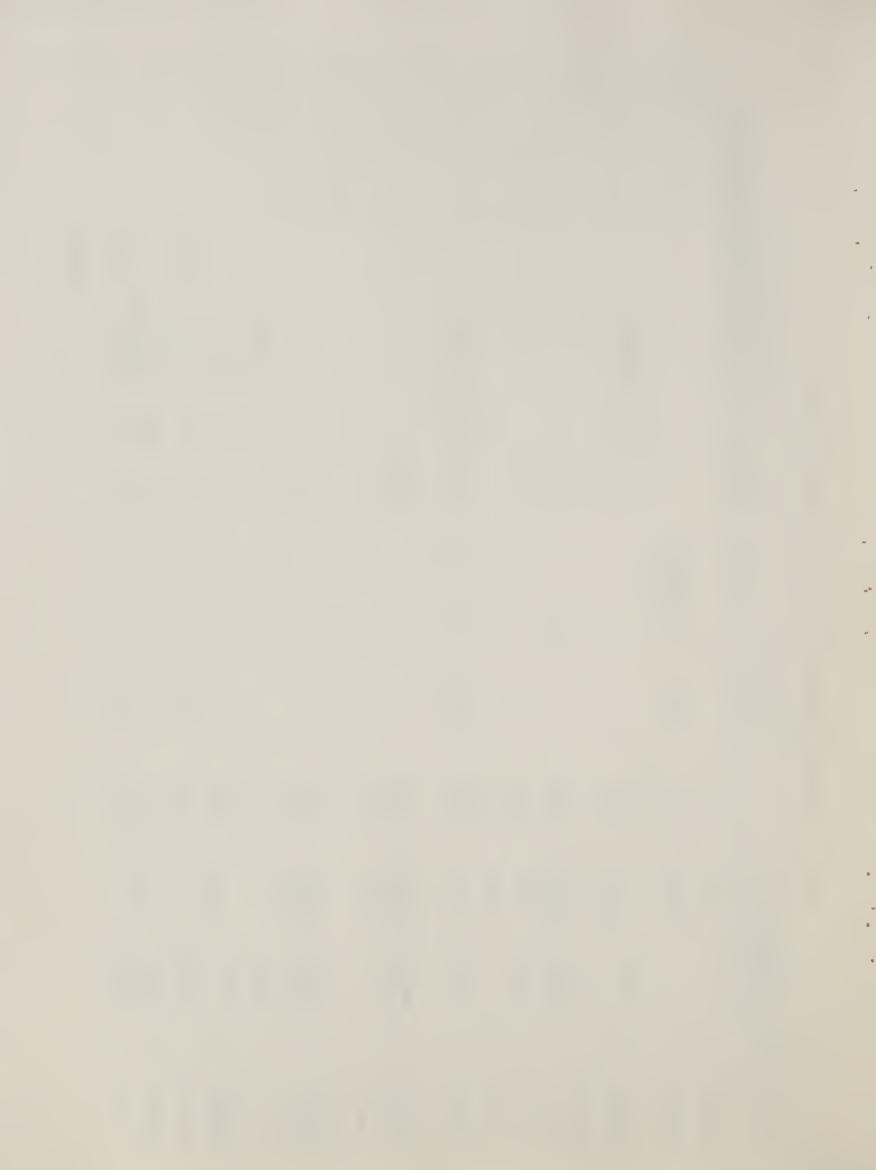
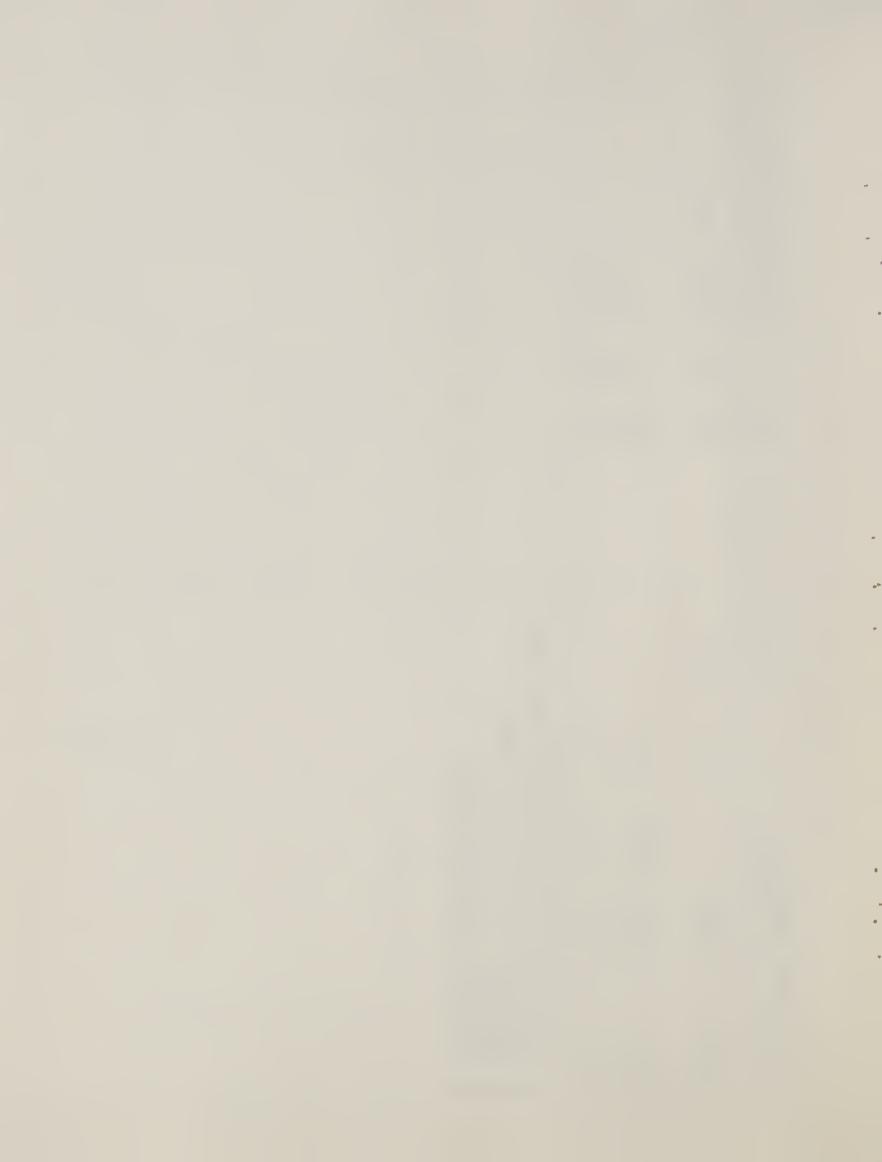


Table 4 --Belgium: Demand elasticities for meat products, continued

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Commodity and	Time period :				Equa-	n2 :	Coefficie	F	
	Historical Projection	Income	Own-price :	Cross-price	- 1		Income :	Own-price : Cross-price	price
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Flsh: : : FAO(67): FAO(71):	1961–63 1975–85 1964–66 1970–80	.20			TS TS				
SESO(67)	1953-64 1953-64 1970-75	.92			SL DL	186	.92(.11) 2,975(36)		
1/ Estimate made in 1961 2/ Price and income elast	in 1961 for a 1965 projection.	jection. d from differ	ent sources.	:				220 % 30	
	Stewing beef. Weighted average price of pork cutlet and bacon.	t and bacon.							112 A
$\frac{5}{6}$ Pork cutlet. $\frac{6}{7}$ Processed meat,	edible offals, index for meat,	and game. (1954=100).	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1	1	1		1
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-- Denmark: Demand elasticities for meat products Table 5

	Info	ortod		Elasticity of	f:		S	Statistical 1	information	
Commodity and source	Historical Projection	Projection:	Income	Own-price	Cross-price	Equa- :	R ² :	Coefficient Income : Ov	& standa	rd error : Cross-price
Beef/veal: AUOI(69) <u>1</u> /	: : 1953–65		.60 to .70	74 to -1.06		·	.61/.74**	: نير		
AU01(69) AU01(69) $\overline{6}/$ AU01(69) $\overline{6}/$: <u>5</u> /1963/65 : <u>5</u> /1963/65	1970-80	. 37	3/55	pouttry 2/	n SE Ju	.56**			
FAO(67)	.: 1961–63 .: 1964–66	1975-85 1970-80	.50			SL)
Gruen(68)	.: 1959-61	1980	50			SL				₩.E.
MSU(71)	.: 1954-68	1980	.40	01	.01 pork	IS .	.84	5.99(3.6)	.19(.04)	.13(.05)
OECD(68)	: 1961-63	1975-85	.41			LI LI	.37	50.2(19)		
Pork: AUOI(69) <u>1</u> /	.: 1953–65		.47 to .52	-1.23 to -1.48	.37 to .52 beef and	1	.58/.67**	1	- - - - 	
AUOI(69)AuoI(69)	5/1963/65	1970-80	.27	1/68	Poutrty 2/	SL	.30**			# (Tr) * (
FAO (67)	: .: 1961–63 .: 1964–66	1975-85 1970-80	.10			17				
MSU(71)	.: 1954-68	1980	26	-1.37	j .66 beef	ITI	.73	.42(.10)	1.37(.2)	(61.)99
OECD(68)	: 1961–63	1975-85	44			II T	30	.13(.06)		
Poultry: AUOI(69) <u>1</u> /	: : 1953-65		.30 to .92	06 to28 .	, 40 to 1.09 beef and	·	.85/.88*			
AUOI(69)	5/1963/65		.36		pork 2/	SL				
FAO(67) FAO(71) FAO/CCP-5(71)	.: 1961–63 .: 1964–66	1975-85 1970-80	. 70 . 07.			SL	•			

Continued

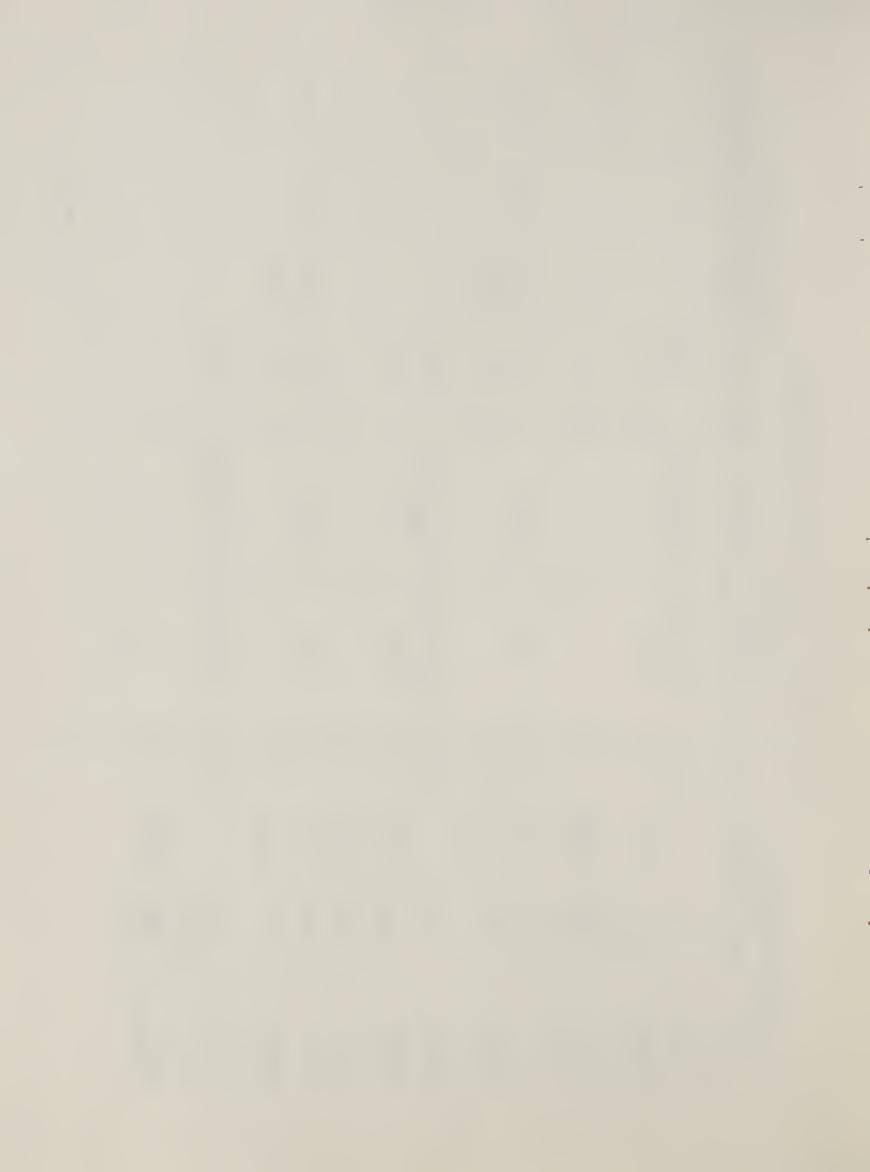
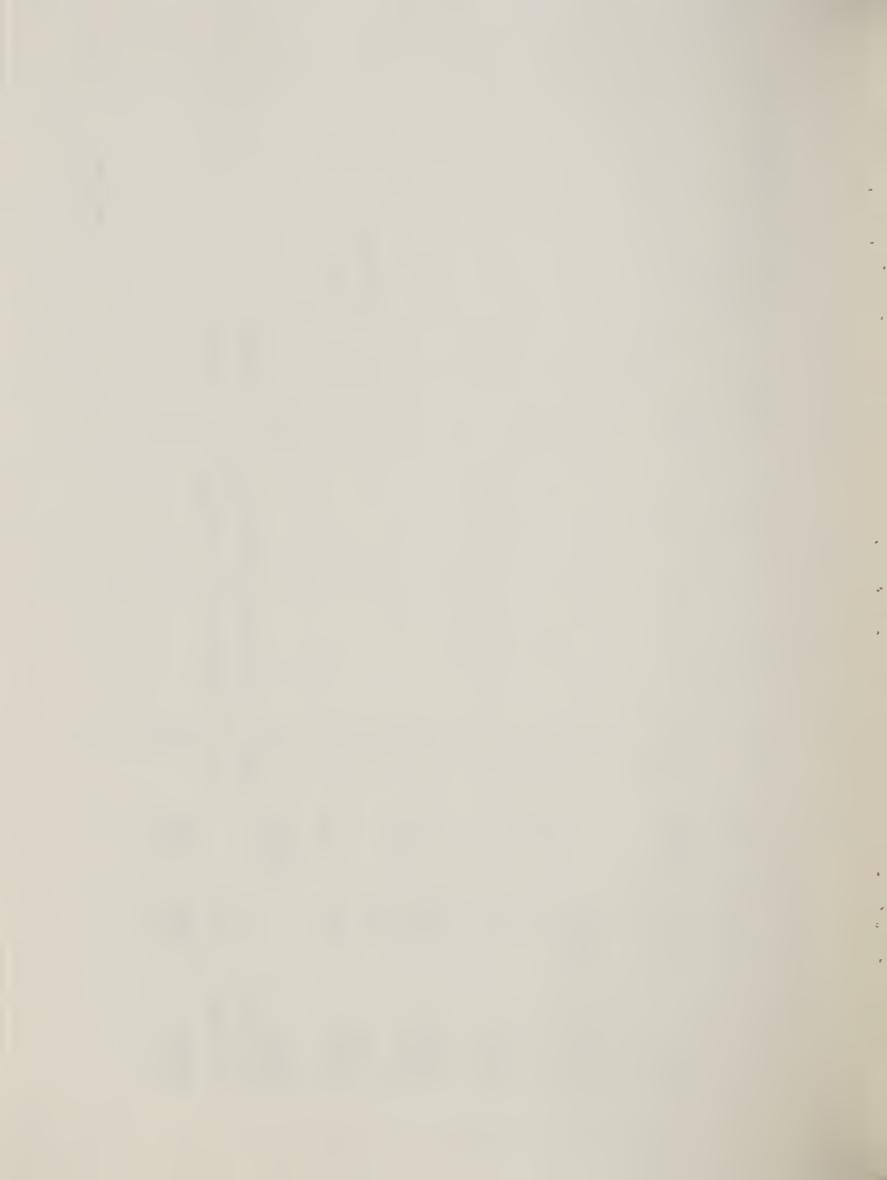


Table 5 -- Denmark: Demand elasticities for meat products, continued

ាមក្រ ខេត្តដំណាមមានរង្វៈ នៃដោយ ការ និង កាមការ វេង កាមការ ស្រ បាន ការ ការ ស្រ ស្រ ស្រាញ បាន ការ បាន ស ស្រ បាន ការ ការ ស្រ ការខេត្តសម្រាប់ និក សាសា

Statistical information	Coefficient & standard error Income : Own-price : Cross-price	3.8(1.0)		£6₹-	7, UT 2 3)	noga vi	1	. 36(.06)	3,850(1,150)	14.4(12)				- Post throat
. Ste	R ² :	.91		<u>19</u>			.57/.77		.74	.05	.51/.60**	*86./56.		
	Equa-	SL	SI	L L	ST ST	TS ST	' TG ;	SL SL	LI	SL	7S		TS TI	
	Cross-price	-					8 to .57 fish		-		14/01 to14	04 to87		to collect Mid-IM and to the
Elasticity of:	Own-price :	8/27	·.	, .•			54 to59 .3	<u>-</u>		- -	-1.73 to -1.93 1	14/04 to29	2	1000 335 00 03 1000
	Income :	.40	. 40	. 00.	.42	04.	.22 to .28	.40 .39 .27 .19	4.29	.12	.36 .45 .68 to .76	2.24 to 2.36	. 20 . 30 . 63	2011
1	Projection	1980	1975-85 1970-80			1975-85 1970-80	1	1970 1975-85 1970-80		1975-85	<u>5/1963/65</u> 1970-80		1970 1975-85 1970-80	•
Reference information	Historical Projection	1954-68	1961–63	1961-63	$\frac{1}{100}$	1961–63 1964–66	1953–65 1953–65	1957-59 1956/57 1961-63 1964-66	1950-58	1961-63	. 1953–65	1953-65	1957–59 1961–63 1964–66	
Reference	Commodity and source	MSU(71)	Mutton/lamb: : FAO(67): FAO(71):	0ECD(68)	Other meat: AUOI(69)9/ AUOI(69)10/	FAO(67)11/ FAO(71)11/ FAO(71)11/	Total meat: AUOI(69)1/	FAO (62) FAO (62) 12/ FAO (67)	: Goreux(60):	OECD(68)	Fish: AuOI(69) AuOI(69)	AU01(69)1/15/	FAO (62) FAO (67) FAO (71)	

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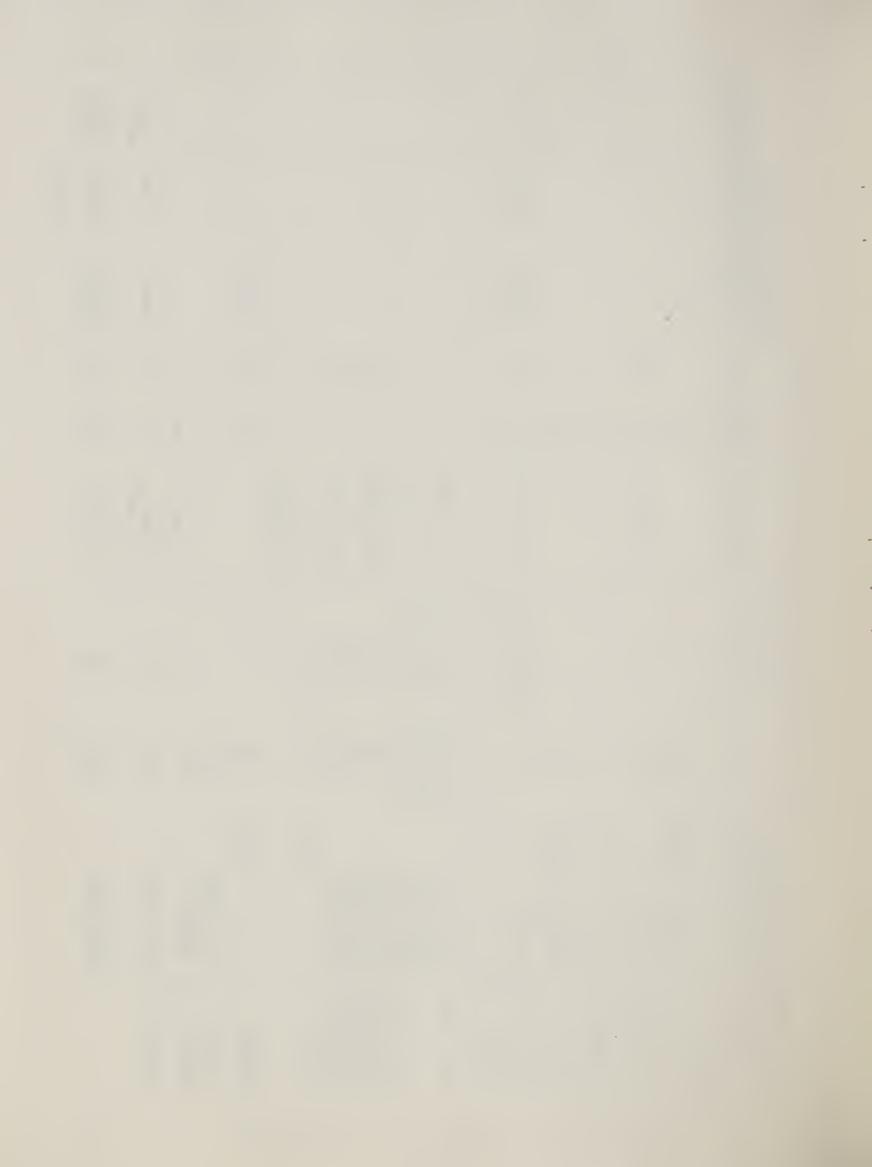


Reference 1	information :	[E]	Elasticity of:		S	Statistical	information		
Commodity and source	Historical Projection:	Income : Owr	Own-price : Cr	Cross-price : Equa-	n: R ² :	Coeffic	Coefficient & standard come :: Own-price : C	rd error : Gross-price	price
Significant at Significant at Range of elasti Based on the av	Significant at the 99 percent confidence level. Significant at the 95 percent confidence level. Range of elasticities calculated from six different demand func Based on the average price of the two commodities. Ratio of the beef price to the average price of pork and poultr	nce level. nce level. six different d commodities. e price of pork	emand functions.						
Beef only. Years of cross-secti Young beef and veal. Ratio of the pork pr	onal su 1ce to study (irvey - calendar year 1963 and split the average price for beef and poult).	year. ry.	February 1964 to Fel	February 1965			<u>-€0</u> [,	-¥0Z
Canned meat. Processed meat	Canned meat. Processed meat, cold cuts, etc.	,						·012J 3	
Based on consultance Range of four Consumption me	Based on consumption survey of urban households. Consumption measured in volume. Range of four equations only. The other two had Consumption measured as expenditures at constant	urban households. The other two had small positive !tures at constant prices	1 positive elasticities	icities.	-	; ; ;	. i		
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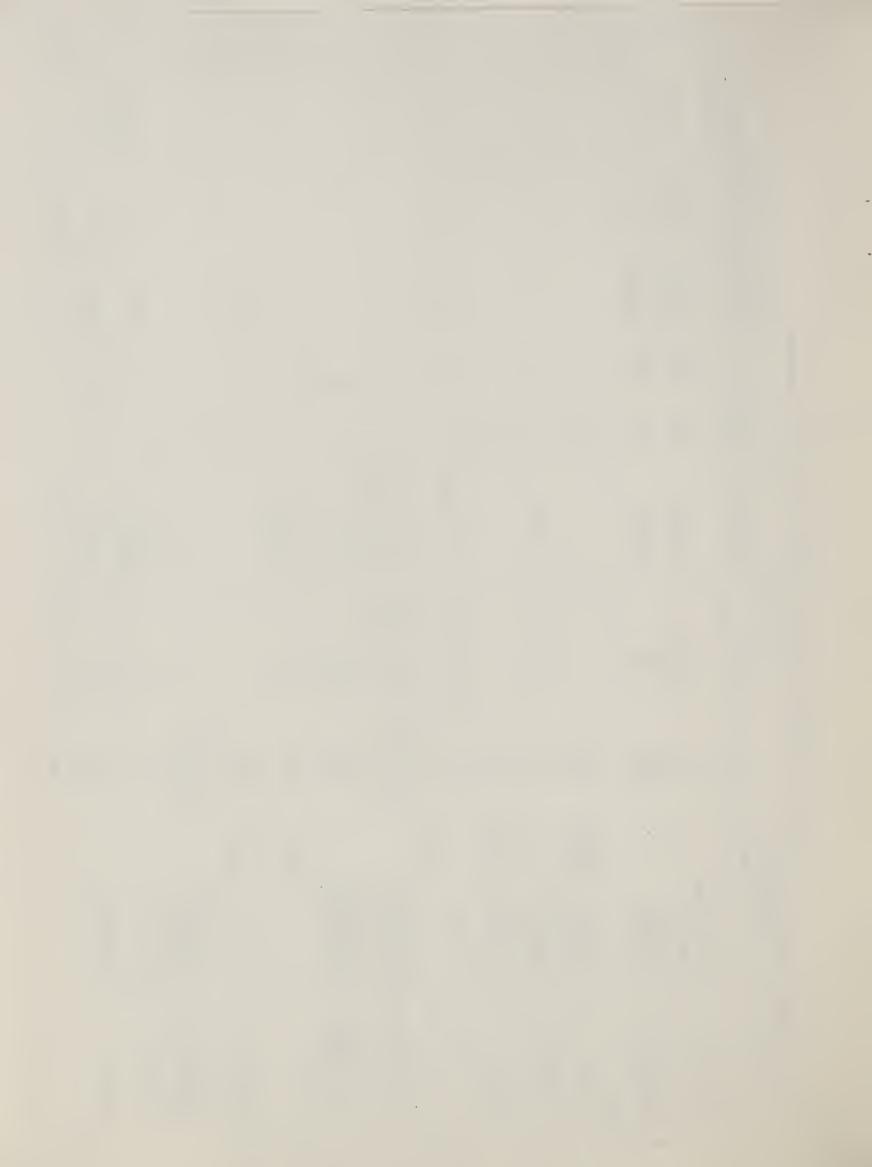


Table 6 --F.R. Germany: Demand elasticities for meat products

ty and Historical Proceed: Historical Historica	1975-85 1970-80 1970-80 1975 1980	Income			••	•	Statistical information	100000000000000000000000000000000000000		
1961-63 1964-66 1964-66 1954-65 1954-65 1957-60 1957-60 1957-60 1955-68 1955-68 1955-68 1955-68 1955-68 1955-68 1955-68	975-85 970-80 1975 1980		Own-price :	Cross-price	:Equa- :	R ² .	Coefficie Income :	Coefficient & standard error come : Own-price :Cross-p	rd error:Cross-price	1 1
	1975 1980 1965	.50			Ts .					
	1980	.82	. 55	.26 pork	SL	1.00			10	10.3
	1965	.70	-		SL					C
:::::::::::::::::::::::::::::::::::::::	1975	.83			DF SF			NG 3	**=	·. C
: •		. 42 74 -	58(boiling beef); 76(veal roast)	.36 pork cutlet	7IC	.98	.42(.06)	.58(.12) 3.41(2.0)	.36(.11)	1200 37
•	1970	.60						333	7 td	F 1 2
Langen (70) $\frac{3}{4}$ $\frac{1955}{56-64/65}$ Langen (70) $\frac{4}{4}$ $\frac{1955}{56-64/65}$ Langen (70) $\frac{4}{5}$ $\frac{1955}{56-64/65}$ Langen (70) $\frac{5}{5}$ $\frac{1955}{56-64/65}$.69 to .72* .70 to .72* .69 to .73* .69 to .73* .69 * .69 * .69 * .66 *	38 to52 74 to84* 66 to75* 75* 75* 75* 73* 73* 72*	.02 to .11 pork .21 to .25 pork .23 pork**; .23 pork cutlet** .15 pork belly**	78	96. 99. 79. 99.			1 1 2 x 2 7 1 3 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CAST THE RESERVE OF BUILDING
MSU(68) <u>6</u> /1	1970-75	.70	71	.20 pork .10 poultry		1				
OECD(68); 1961-63 OECD(68);	1975-85	.30			ijij	94	66.79(8)			
Plate(70): Early 1950's Plate(70): Mid-1960's Plate(71): 1960-69		1.20 .60 .55	09	. 20 pork	SL					
: Stamer(65):1950/51-61/62 :		1.01	06	. 23 pork	TS.	66.	33.04(3)	29.66(6)	74.43(6) 43.86	
: :1950/51-61/62 :1950/51-64/66	·	.95	84	.17 pork	TS	66.	31.09(3) 33.09(3)	27.48(7)	5.455(6) 3.482(3)	



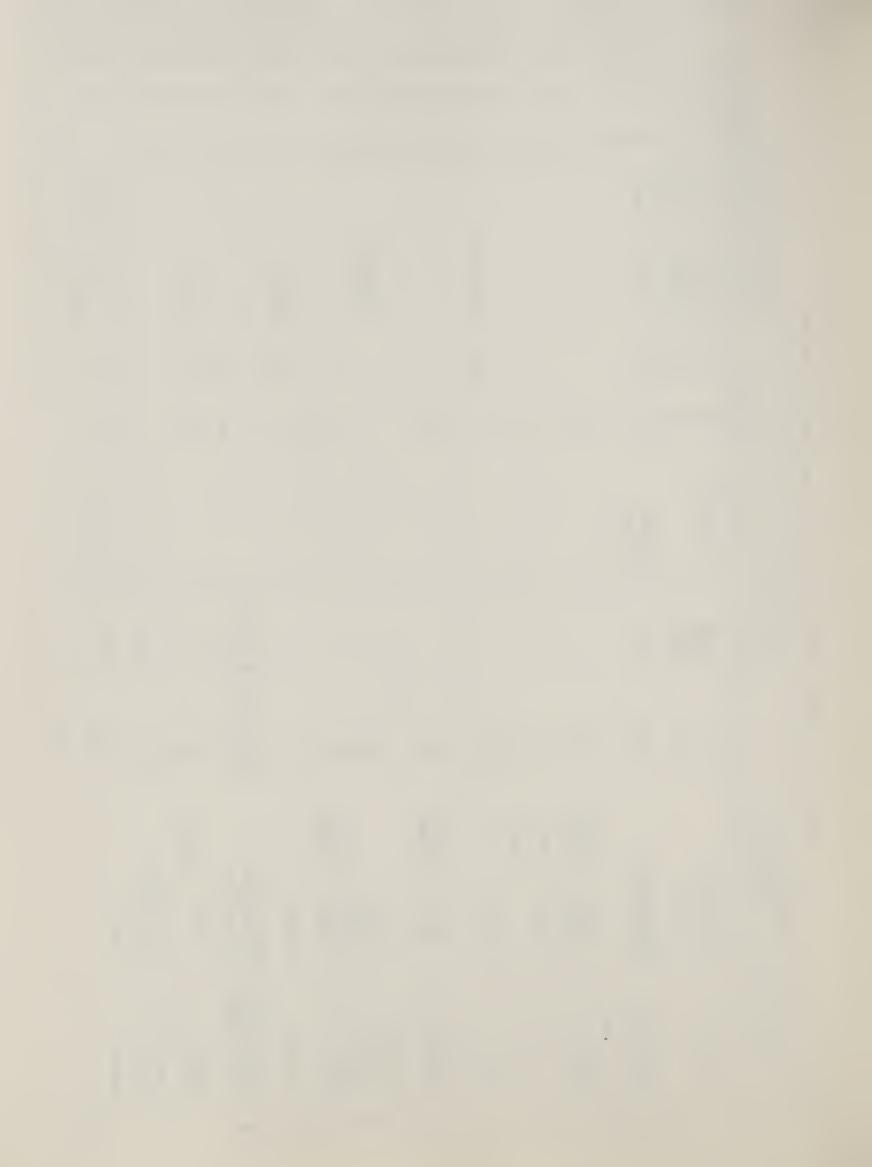
rence infor	mation :		Elasticity	OF: 11534			Statistical	1 information	uc
	Historical 'Projection':	Income :	Own-price ;	ıd-	Equa-	R ²	Coefficient Income : Own	ent & stamdard	d error
Stamer(65): 1950/51-61/62 Stamer(65): Long-run	1/62	.96	87	74 pork	SL	99.	31.46(2)	28.49(6) 14.46(12)	24.62(27)
Weber(61): 1950-58 Weber(61): 1950-58		1.07	59	.31 pork	DI	966.	1.07(.05)	.59(.10)	.31(.15)
FAO(71) 1961-63	1975-85 1970-80	.30			II SE				%9Z
Gollnick(71): 1954-65 Gollnick(71):1963/64-66/67	/67 1975	.47	23	.17 beef	SL SL	1.00		101130	
IFO(67)	1965 /63 1975	.37			SL			GER TO!	
Kost(75)1/ 1955-58	! ! ! !	- 74.	59 (pork cutlet)	.24 boiling beef	f LLI	96	.74(.12)	.59(.18)	,24(.15)
Krohn(62)		.30	-					1	
Langen (70) 2/: 1950/51-64/65 Langen (70) 2/: 1955/56-64/65	/65 /65	.34 to .35 *	51 to59* 42 to45*	.39 to .54 beef* .06 to .13 beef	*			SIMI NIĤĴ	SIHI NIH.
Langen(70)3/:1955/56-64/65 Langen(70)7/:1955/56-64/65 Langen(70)8/:1955/56-64/65	/65 /65 /65	. 37* . 52* . 33*	45* 0.43* 0.17*	. 13 beef	SL	.92 .89		LIM BOA1	TYPE WIT
мsu(63) <u>6</u> /	1970–75	. 40	27	.10 beef .05 poultry					
OECD(68) 1961-63	1975-85	. 50	- ,	. <u>.</u>	l I	<u>96</u>	(+0')6+'		
Plate(70) Early 1950' Plate(70) Mid-1960's Plate(71) 1960-69	50's 's	.60 to .70 .30 to .35 .30	55	.30 beef	SL				
Stamer(65) ::1950/51-61/62	/62	.53	02	1 .13 beef	SL	966.	31.33(3)	41.6(8)	7.54(8.2)
Stamer(65);1950/51-61/62		.54		. 12 beef	SL	966.	31.82(3)	41.09(7)	6.98(715)



	_									
1930/21-61/62 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65 1930-64/65	renc	e information :		Elasticity.o	f:		St	1	formation	
1930/51-61/62 1.53	and	Historical Projection:		Own-price :		Equa-	R ²	Coeffici	40 5	d error
11) 1950-58		: :1950/51-61/62 : Long-run	.58		-,98 beef		.995	34.14(1)	42.19(7) 7.69(9.8)	58.33(4)
1961-63 1973-85 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1	Weber(61)	: 1950-58 · : 1950-58	.69		.60 beef	2 2	.995	.69(.05)	.68(.15)	.60(.13)
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Commodity and His	Information	••		1	<u>۱</u> ۰ ۷				1	
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e antonomia	Historical Projection	ojection	Income	Own-price :	Cross-price	Equa- tion	R ² .	Coeffici Income	ent & standard: Own-price	d error Cross-price
•	: :1950/51-61/62 :1950/51-61/62 : Long-run	A 1	1.35 1.31 1.32	-2.48 -2.67 -3.18	1.28 pork	10 DE	. 985 . 98 . 99	1,349(.2) 1,307(.2) 1,324(.2)	2.484(.4) 2.669(.4) 3.176(.5)	1.285(.8)
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Mutton/lamb: FAO(67) FAO(71)	1961–63 1964–66	1975-85 1970-80	.20			7s 7s			· No	0.1
Gruen(68)	1959-61	1980	09.			SI			31±360	
Krohn(62):		1970.	. 24							
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Other meat: FAO(67)10/ FAO(71)10/ FAO(71)	1961–63 1964–66	1975-85 1970-80	.50	! . ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TS ST	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	I I I I I I I I I I I I I I I I I I I	1 .
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Goreux(60)	1950-58		74.			17	66.	563(26)		
: Langen(70) <u>2/13</u> /:1950/51-64/65 Langen(70) <u>2/13</u> /:1955/56-64/65 Langen(70) <u>3/13</u> /:1955/56-64/65)50/51-64/65)55/56-64/65)55/56-64/65		.59 to .61 .57 to .59* .57*	19 to27 "36 to37*' 37*		SL	76.			
OECD(68)	1961–63	1975-85	.50	•		11	66.	71.42(2)		
Plate(70)	Early 1950's Mid-1960's	89	1.00	гон 10 т п 08 1 4 10 н	TYPE WITHIN THIS LINE					
Regier(66)	1951-62		.72	FOR 20% RILEGIC HOU	TYPE WITHIN THIS CINE	DI	66.	.72(.02)	.05(.08)	

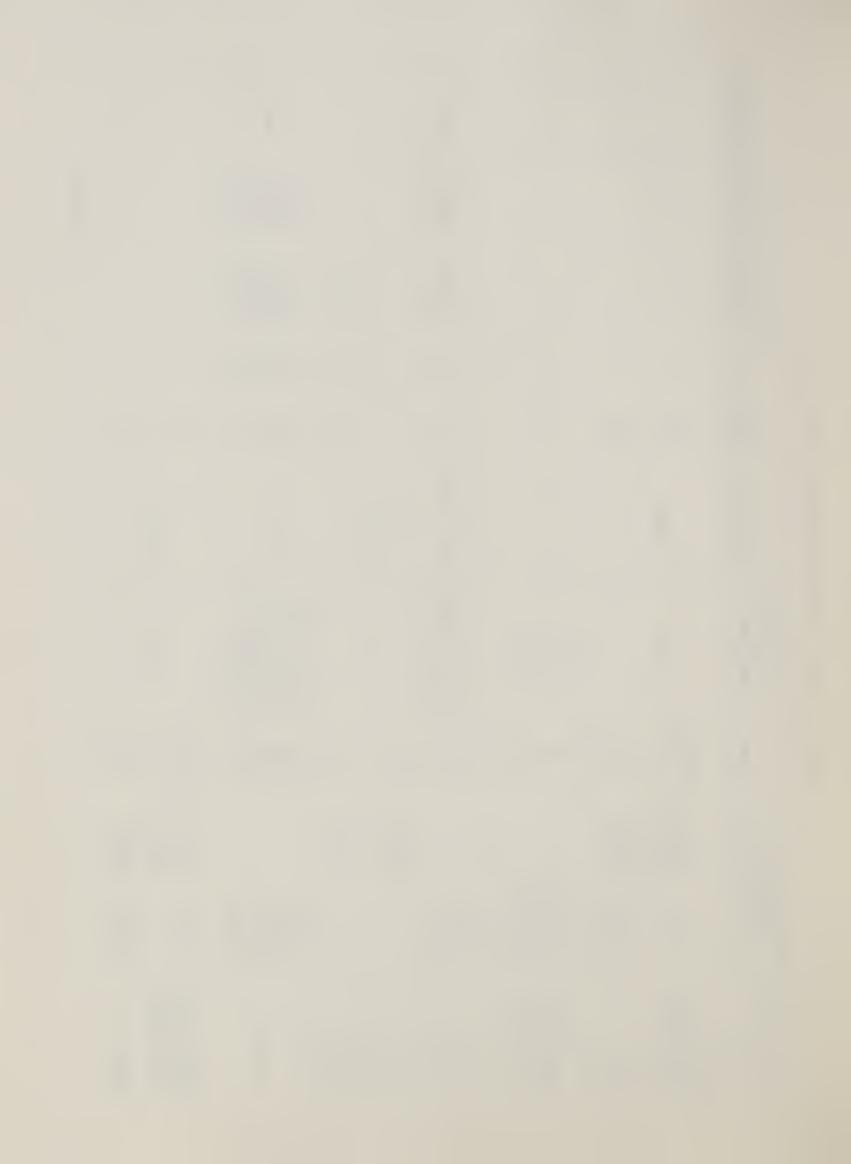


Reference information :	Elasticity of:			Statistical in	information		
1	me Own-price	.Cross-price	Equa- R2	: Coefficie	cient & standard: Own-price :Cr	ard error:	
Weber(61)14/ 1950-58	9 15/26		DL ,995		.26(.20)		
Fish: FAO(67) 1961-63 1975-85 .30 FAO(71) 1964-66 1970-80 .30	00		SL SL				
more than the 99 perce the 99 percent confide the 95 percent confide asured as expenditure. Icities calculated from equation by Langen.	nt confidence level. nce level. three different demand functions	s (linear, semi-log,	og, and double-log)		Notice	j 0 I	n 55 percent in
Roasting beet. Boiling beef. Income and price elasticities derived from different Pork cutlet. Pork bellv.	fferent Bources.	,			33k 401 e03		
	e e e e e e e e e e e e e e e e e e e	! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	1 1 1 1 1	1 1 1 1 1	ENIT SIFE NIMER	SINT SINT NINTI	TOT - Entir
Deflated price index for meat and meat products.					2GYT		
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	. 						
%	FOR IOS BLUCCTION 10%	TYPE WITHIN THIS CILE					t leod
	FOR 20% REMICTION	TYPE WITHIN THIS CINE					3 0



Table 7 -- France: Demand elasticities for meat products

ty and Time period in the period in the ce in the period in the ce in the corn in the ce in the corn in the ce in t	Reference	Reference information			Elasticity of:		•• ••	S.	Statistical in	information	
1956 1970-75 197 to .49 1956 1970-75 197 to .49 1956 1970-75 197 to .40 1956-66 1970-75 197 to .40 1956-66 1970-75 197 to .40 197	and	ed emil	10100		1	Cross-price	1		Coefficie	nt & standar	derror
1956 1970-75 .37 to .49 .20 pork SL .20 pork .		1storical r	rojection							- 1	01088-011
1956-66 1970-85	eal: : : : : : : : : : : : : : : : : : :	1956 1956	1970-75 1970-75 1970-75	to	70	. 20 pork	TS TS				
Sincer-run Sincer		1961–63 1964–66	1975-85 1970-80	.40	T		SL			- 25 U (
Short-run .36	(7a)	1952-64			06				•		
1955-68		Short-run Long-run Short-run Long-run		.36	56 62 97 -1.00					.e _⊃⊺©⊋ n ten	
1955-68 1955-68 1970-75 1955-68 1970-75 1970-75 1970-75 1970-75 1970-75 1950-58 1970-75 1950-58 1970-75 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-58 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 1950-78 195		1959-61	1980	.50							
1970-75 .5070 .10 pork 1970-75 .5070 .10 pork 1950-58 1.2430 (beef steak) .10 pork .11 .31 .28.7 (44) 1/4 1950-58 1.2430 (beef steak) .29 pork .20 .20 .13 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20		1955-68 1955-68	:	1	80(beef steaks)	35		.59	.66(.38)	.028(.01)	.02(.01)
1970-75 .5070 .10 pork .11 .31 28.7(44) .10 pork .10 pork .12 .25 .20 .25 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .	i(62)		1970	.35						- Parks	
1961-63 1975-85 1.25 1.1 1.26 1.27 1.26 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.27 1.	18) 5/		1970-75	.50	70	.10 pork				1 W Z	<u>.</u>
1950-58	(89)	1961–63	1975-85	.25			11	15.	28.7(44)	a	
1956 1970-75 .36 to .45 1956 1970-75 .45 to .65 1970-75 .45 to .65 1970-75 .45 to .65 1970-75 .30 to		1950-58 1950-58 1950-58 1950-58 1950-58		1	30(beef steak)63(spare-rib)74(spare-rib) 1.77(boneless loin71(brisket) 6/-1.15	. 29	70 70 70 70	. 89 . 94 . 96 . 76 . 80		35555	.29(.16)
: 1961–63 1975–85 .30 ()	0C(67) <u>2/7</u> / 0C(67) <u>2/8</u> / 0C(67) <u>4/9</u> /	1956 1956	1970-75 1970-75 1970-75	to			TS .				
St. 50-0/6T 00-b06T :	::	1961–63 1964–66	1975-85	30 - 1	ā		LI SL				



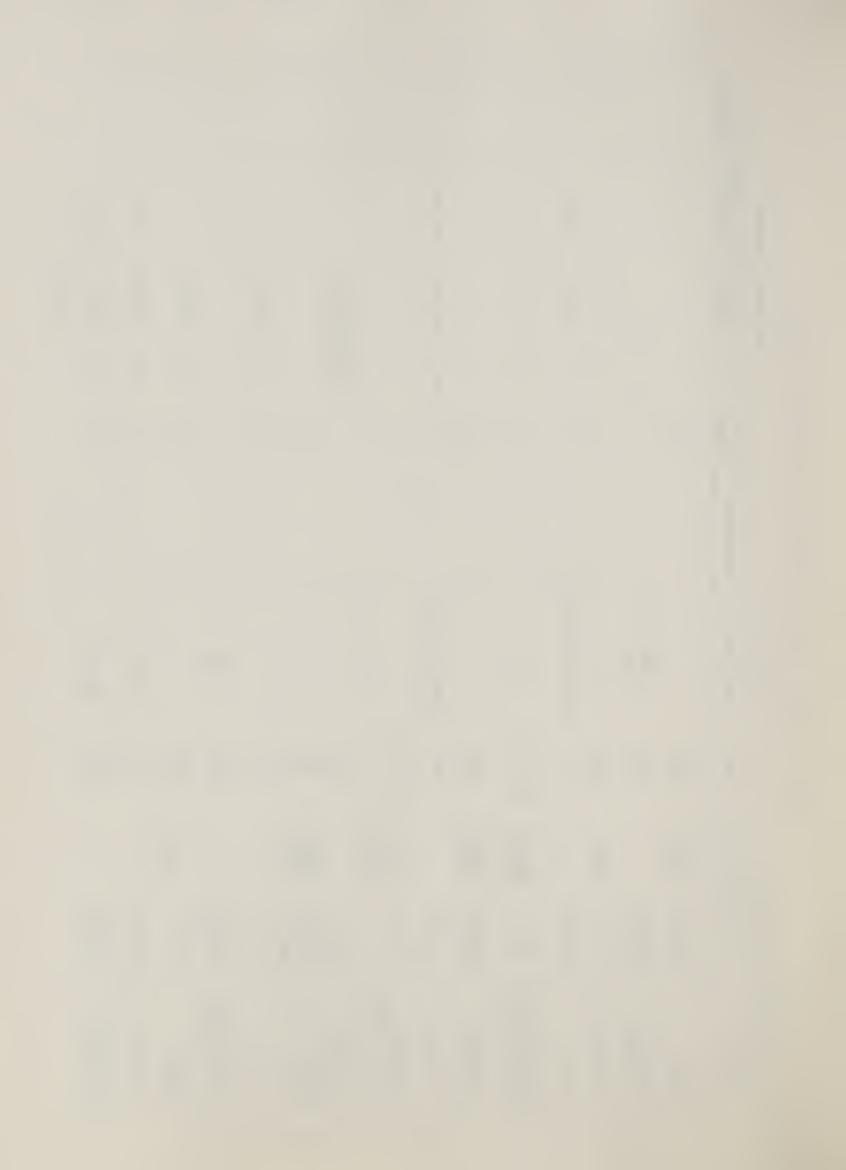
-- France: Demand elasticities for meat products, continued Table 7

Referenc	Reference information	· ·		Elasticity of:			S	Statistical in	information	
Commodity and source	Historical Projection	Projection:	Income	Own-price	Cross-price	Equa-	R ² :	Coefficient Income : Ox	Own-price:	d error Cross-price
Faure (67)	.: 1952-64		.50 го .60	70						
0) 0) 10/ 0) 10/	: Short-run :: Long-run :: Short-run :: Long-run		56 	49						· · · · · · · · · · · · · · · · · · ·
Kost(75)	: 1955-68		.12	22(ham)	32 boiling beef.	10	.95	.011(.01)	.22(.22)	.32(.18)
Krohn(62)	••••	1970	.20							
MSU (68) <u>5</u> /		1970-75	.35	30	i io beef				- 1 Nov. 20 CT	
OECD(68);	: 1961-63 ::	1975-85	. 60			r LI	.93	.141(9)	, <u>-</u>	_0. s7a
Weber(61);	.: 1950–58 : 1950–58 : 1950–58		1.15	23(backbone) 11/24 11/16	.35 spare-rib	; 10 10	. 95 . 95 . 97	1.15(.1) -1.12(.1) 1.17(.1)	.24(.19) .24(.19) .16(.16)	.35(.16)
Poultry: CREDOC(67)2/12/ CREDOC(67)4/	: : 1956 ::	1970-75 1970-75	.65 to 1.18	-1.01		SL				White ice
FAO(67)	.: 1961–63 .: 1964–66	1975-85 1970-80	.50			SL				
Kost(75)	: 1955-68		. 09*	95		DI	86.	.054(.005)	.46(.26)	
Krohn(62)	•• :	1970	.50							
MSU(68) <u>5</u> /	;	1970-75	09.	-1.01	20 beef & veal	a1				
OECD(68)	.: 1961–63	1975-85	1.39		-	DL	106.	1.39(11)		
Weber(61)	1950–58		96*	23 (broiler chic	cken)	. To	. 89	,96(.25)	.23(.34)	
Mutton/lamb: CREDOC(67)2/	930 1	1 7 7			= 1					



-- France: Demand elasticities for meat products, continued Table 7

ference info	tion		Elasticity of:	<u>.</u>	•• •		Statistical	Information		
Commodity and Historic	Historical Projection	Income	Own-price :	Cross-price	Equa-	R ² :		Coefficient & standard ncome : Own-price : C	error Cross-price	1ce
FAO(67) 1961-63 FAO(71) 1964-66	3 1975-85 56 1970-80	09.	•		TS TS					
Fouquet(70): Short-run Fouquet(70): Long-run	run	.70	. 90							
: Krohn(62):	1970	09.						윤61 ·	- 02-	با شد د
Weber(61) 1950-58	89	.76	35 (boneless loin	(u	Jū.	.72	.76(.20)	.35(.12)	-	
Other meat: CREDOC(67)2/13/.: 1956 CREDOC(67)4/13 :	1970-75 1970-75	.41 to .66	09*-		SL			.5 _0034	10 .008	136331
FAO (67) 14/: 1961-63 FAO (71) 14/: 1964-66	53 1975-85 56 1970-80	.36			SL			101 EO	. 27 30.	೯೭ ಅವು
1950-58	89	. 64	+.03(rump steak)	1	_ 10	.41		.03(.14)	1	
Total meat: : : 1956 CREDOC(67)2/16/.: 1956 CREDOC(67)4/16/.:	1970-75 1970-75	.41 to .57	75	, 	SL			USIGN NOTE	1 + N H.	Calma Sissat
$\frac{17}{18}$ /:		.54				.54(.(.54(.05).54(.05)	M. Pro-	7 7 7	ं अलं≛ ः
FAO(62) 195/-59 FAO(67) 1961-63 FAO(71) 1964-66	53 1975-85 56 1970-80	. 34			SL SL					
Goreux(60): 1950-58	89	.45			LI	11.	417(113)			
Fouquet (70) 16/ .: Short-run Fouquet (70) 16/ .: Long-run	-run run	.57	73 85							
; OECD(68): 1961-63 OECD(68):	53 1975-85	99.			SL	88	46.7(12)			
: 1951-62	52	.70	19/24	-	DL	96.	.70(.05)	.24(.11)		
: ber(61) <u>16</u> /: 1950-58 :ber(61) <u>16</u> /: 1950-58	58	.99 1.13	20/-1.02	<u>-</u>	1d 1d.	98.	.99(.14)	1.02(.3)		
/9	58 58	.99 1	$\frac{20}{1.02}$		DE DE		98		.99(.14)	.99(.14)



-- France: Demand elasticities for meat products, continued Table 7

Cross-price : Equa- : R ² : In SL SL SL SL	Cross-price : Equa- : R ² : SL SL SL SL SL SL
OC(67)2/: 1956 1970-75 .46 to .6530 OC(67)4/: 1961-63 1975-85 .30 71): 1964-66 1970-80 .61 Uet(70): 1964-66 1970-80 .61 Cross-section analysis of non-farm households. Cross-section analysis of non-farm households. Neal only. A priori" elasticities derived from different sources. Average price of brisket and boneless loin. Fresh pork. Fresh pork, ham and other processed pork. Ham.	
Uquet (70) 1961-63 1975-85 .30 Uquet (70) 1964-66 1970-80 .61 Beef only. Cross-section analysis of non-farm households. Veal only. "A priori" elasticity estimates. Income and price elasticities derived from different sources. Average price of brisket and boneless loin. Fresh pork. Fresh pork, ham and other processed pork. Ham.	
Beef only. Cross-section analysis of non-farm households. Veal only. "A priori" elasticities derived from different sources. Income and price elasticities derived from different sources. Fresh pork. Fresh pork. Fresh pork, ham and other processed pork. Ham.	
	ent sources.
	1 bacon (1/3),
	l bacon (1/3),
15/ Horse meat. 16/ Red meat only.	

20%



Table 8 -- Ireland: Demand elasticities for meat products



Table 8 -- Ireland: Demand elasticities for meat products, continued

<u>ปีโร๊ก</u> กรกู เก**ลย์หลากเลนอน์ ลนะ**และกุร หลุ กรดกทีย ก็จะได้เกรากกรี เกาะหอ**นุก** การ การ กรกก เกาะการ อะกร **ปลุ**ฦ อย **นอรุปตรกกอ**ย ปฏาและได้ ลัก

Referenc	Reference information	: uo		Els	Flasticity of:			Sta	Statistical information		
Commodity and	Time	Time period :								-	
source	Historical	Historical Projection	Income	-uwo	Own-price	Cross-price	:Equa- : R ² : tion :		Coefficient & stands Income : Own-price	standard error price : Cross-price	price
Other meat: FAO(67)2/ FAO(71)2/	: : 1961–63 : 1964–66	1975-85 1970-80	.30			-	7S 17				
FAO(62) FAO(62) FAO(67)	: 1951/52 : 1957-59 : 1961-63	1970 1975-85 1970-80	.68 .50 .37				SL SL		.68(.04)		::::::::::::::::::::::::::::::::::::
සි Goreux(60)	.: 1950-58		1.05				LI .35		501(343)	Hatto	72.11
¿ 0ECD(68)	.: 1961–63		.84				SL 94		55.9(5)		
Fish: FAO(62) FAO(7) FAO(71)	.: 1957–59 .: 1961–63 .: 1964–66	1970 1975-85 1970-80	. 50			; ; ; ; ; ; ;	7S	·) N	-,-T
2/ Processed me	Estimate made in 1961 for a 1965 Processed meat, game, and edible Based on a survey of urban househ	a 1965 edible	projection. offals. old expenditu		all meats.					म्याचाम्य	-
 						-				i Testa	6.5.
						~ 				-	
			/								
20											
						<u>.</u>					
			10%	-	501 B B	isan sama manan isa.			-		
			20 -	± ±		राम क्रिक्टाम समाज्ञाताम रामा		٠,			
				0	1	A Processing and a second					

TOTAL TO THE STATE OF THE STATE



Table 9 -- Italy: Demand elasticities for meat products

	Reference	nce info	Time period :		Elasticity	/ of:			.Statistical information	nformation	
Prima(62) <u>1</u> 1955-57 1965 1.05 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02	source		Projection	Income	: Own-price	: Cross-price	Equa-	R ²	: Coeffici : Income	2 E	
(63) <u>4</u> ,, 1964-63 1975-85 100 (67) 1956-66 1970-80 SL 67) 1956-66 1970-80 SL 68) 1955-68 1.40 SL 68) <u>6</u> , 1955-68 1.40 SL 68) <u>6</u> , 1955-68 1.55 SL 68) <u>6</u> , 1955-68 1.77 Sport	Beef/veal: Cao-Pinna(62) Cao-Pinna(62)		1965 1970	.85 1.02 1.27 1.08	•		SL	96.	26.47(3) 27.56(2)		
10.52 1.55 1.56 1.980 1.40 1.40 1.40 1.55 1.95 1.94 1.55 1.94 1.55 1.94 1.55 1.95 1.96 1.15 1.95 1.96 1.15 1.95 1.96 1.15 1.96 1.96 1.96 1.96 1.0085(.006) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005) 1.025(.005)			1965 1975-85 1970-80	1.00			7S 7S				. a.j 80,
$(68)_{2} \underline{6}/\dots$ $1955-68$ 1.79 94 1.51 haa $1nv$, $.87$ $3,655(1,127)$ $0.0085(.006)$ $0.0025(.006)$ $0.0025(.005)$ 1.55 86 1.55 86 1.51 haa $1nv$, 1.87 $0.098(.003)$ $4,42(4)$ 1.008 1.008 $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.003)$ $1.0098(.00$		••••	1980	1.40			SL				·,-: :
1970 1.08	Kost $(75)\frac{2}{4}$ Kost $(75)\frac{2}{4}$: 1955-68 : 1955-68		.79	94 86		Inv. SL	.88	3,665(1,127) .0098(.003)	.0085(.006)	
(68) 6/7 1961-63 1.271.2005 pork .05 poultry (11) 6/8 6/8 1956-67 1.271.20 1950-88 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	Krohn(62)	•••••	1970	1.08		-				, eca	
D(68) 1.15 1.15 1.15 1.1 .93 14.3(13) 1.26 1.24 58# .31 pork# DL .95 14.3(13) 1.26 1.24 58# .31 pork# DL .95 14.3(13) 15.3 45# 1.31 pork# DL .95 111ps (70) .95 1.33 47 DL .95 1.98 (11) .47(.41) .47(.41) .95 .95 1.98(.1) .47(.41) .97 2.06(.15) .23(.41) .47(.41) .97 2.06(.15) .23(.41) .77(.48) .97 .98 1.98(.1) .47(.41) .93(.41) .77(.48) .20(.15) .23(.41) .77(.48) .20(.15) .23(.41) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) .77(.48) <td>MSU(68)6/</td> <td>•••••</td> <td>1970-75</td> <td></td> <td>-1.20</td> <td>pork</td> <td>•</td> <td></td> <td>:</td> <td>1</td> <td>1</td>	MSU(68)6/	•••••	1970-75		-1.20	pork	•		:	1	1
111ps (70); 1956-67 1.2458#			1975-85	1.15			[] []	.93	14.3(13)	· . 10° 4 - 741:	
er(61) 1949-57	Phillips(70) Phillips(70)	: 1956-67		1.24	58#	. 31 pork#	OL	. 95 . 95		. 7 30	
Pinna(62) <u>1/9</u> /1955-57 Pinna(62) <u>2/9</u> /1955-57 Pinna(62) <u>2/0</u> /1955-57 Pinna(62)2/0	Weber(61)	1949-57 1950-58 1950-58 1950-58		1.98 2.06 2.07 2.24	$\frac{7}{8}$ 47 $\frac{8}{8}$ 93	. 70 pork	10 10 10	.98 .97 .98	1.98(.1) 2.06(.15) 2.07(.1) 2.24(.1)		.70(.27)
The second of th	Pork: Cao-Pinna(62) Cao-Pinna(62) Cao-Pinna(62) Cao-Pinna(62)		1965 1970 1965 1970	.93 1.08 .54 .56		<u>.</u>	IS ST	. 61	1.009(.3)		
The contract we are and the military and the contract of the c	-	** **									
										Continued	

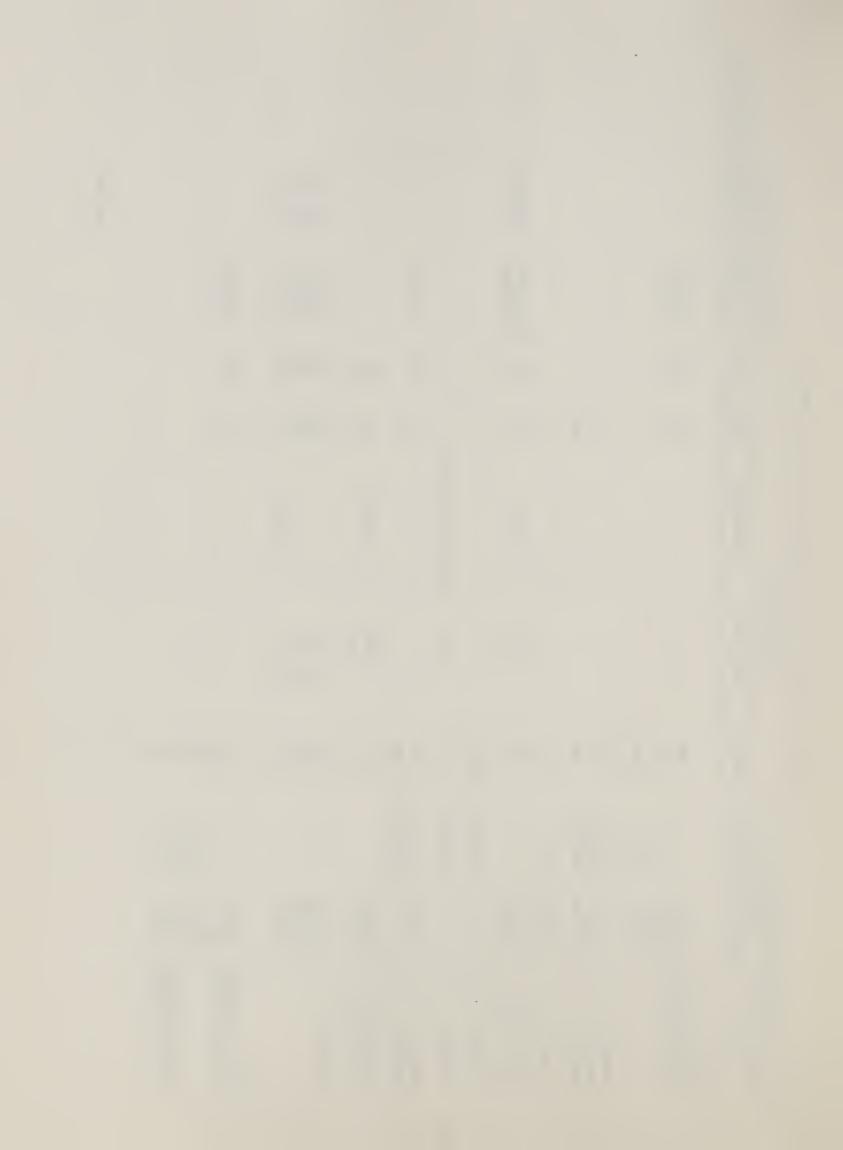


Table 9 -- Italy: Demand elasticities for meat products, continued

Referen	Reference information	n :		Elasticity o	of:	•• ••		Statistical in	information	
Commodity and source	Historical Projection	Projection	Income	Own-price :	Стовя-ргісе	Equa- :	R2 :	Coefficient Income : Ov	Own-price : .	d error .Cross-price
FAO (65) 3/ FAO (67)	: .: 1961-63 .: 1964-66	1965 1975-85 1970-80	. 30		·,	ns Ts				
Kost (72) <u>2</u> /	.: 1955-68		04.			1	.89	.0082(.001)		
Krohn(62)	•••••	1970	.79		<u>.</u>					-±03
жи (68) <u>б</u> /		1970-75	09.	06	1.10 beef/veal 1.15 poultry					
OECD(68)	: 1961–63 ::	1975-85	.50			TI ST	.73	63.3(12)		
Ph1111ps(70)	.: 1956-67		.78	-1.66	1.59 beef	DI	.88		e Nerve	
Weber(61)	.: 1950–58 .: 1950–58		1.06	64	2.95 beef	DI DI	.58	1.06(.5)	.64(1.34)	2.95(1.5)
Poultry: Cao-Pinna(62) <u>2</u> /	1955-57 1955-57 1955-57	1965 1970	.86 1.00 1.48			SI	86.	6.592(.4)		5
FAO (67) FAO (71) FAO/CCP-5(71) 11/	.: 1961–63 .: 1964–66 /: 1962–68	1975-85 1970-80	1.20	-1.20		TS TO			7.2	
Kost (72) <u>2</u> /	.: 1955–68		1.51			Ţ	86.	.023(.001)		
Krohn(62)		1970	1.23		-,-					
/ <u>9</u> (89)пѕм	•• •• ••	1970–75.	1.00	-1.00	.30 beef/veal					
OECD(68)	.: 1961–63	1975	3.00		;-	TI DI	96	368.5(14.1)		
TSU(64) <u>13</u> /	•••••	1965	1.60		-					

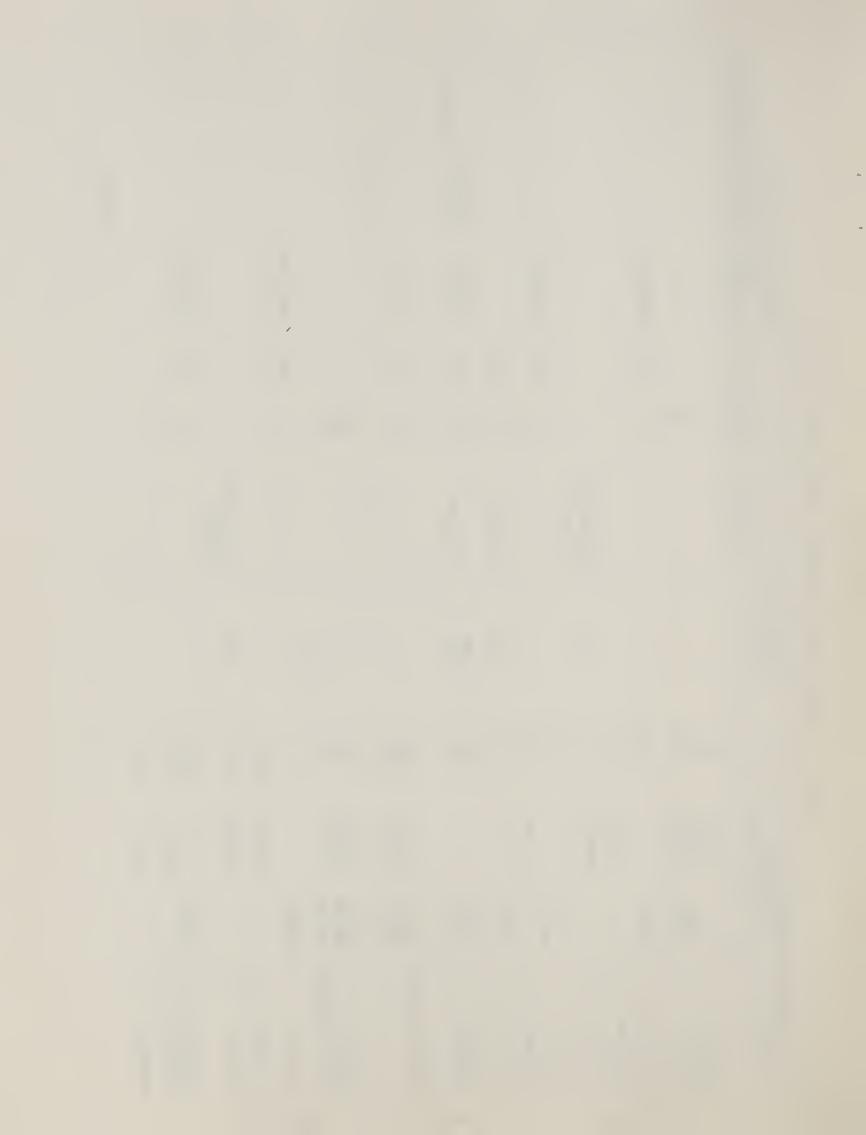


Table 9 -- Italy: Demand elasticities for meat products, continued

1955-57 1965 2.38 2.1 2.56 1.492 2.1 2.26 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20 2.20	rence	Reference information Time period	n :		Elasticity of:				Statistical in	information
1955-57 196528 5.1492(4) 1955-57 19652928 1955-57 196520 1955-57 196520 1955-57 196520 1955-61 1970-8050 1955-61 1970-8050 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-57 196520 1955-5		Historical	Projection		1	Cross-price	Equa- tion	R ²	In	standard price:
1959-61 1980 1.40 8L 8L 8L 70-6(6) 1970-80 5.50 1.40 8L 8L 70 2.786(.6) 8L 1970-80 5.50 1.40 8L 8L 70-6(1.6) 8L 70-6(1.6) 8L 8L 70-6(1.6) 8L 70-6(1.	utton/lamb; Cao-Pinna(62) <u>1</u> /.: Cao-Pinna(62) <u>2</u> /.:		1965	38 08 .20			TS TS	.43	1.492(.4)	
1955-67 1960 1.40 SL SL 776 (.6) SL 1970 5.50 SL 1955-57 1965 6.60 SL 1970-80 5.60 SL 1970			1975-85 1970-80	.50		**	DI			£01 —
1970 5.50 5.1 5.1 5.1 5.2 5.6 (-6) 5.1 5.2 5.2 5.4 (-3) 5.2 5.4 (-3) 5.2 5.4 (-3) 5.2 5.4 (-3) 5.2 5.4 (-3) 5.2 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.2 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (-3) 5.4 (1980	1.40			7S.			
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1954-66 1970-80	2)1/4		1965	. 51 . 82 . 67	 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	75 78	.93	2.786(.6)	i
1955-57 1965 1.83	• •	1961–63 1964–66	1975-85 1970-80	.50			DI.			6 S.A.S. 744
1953 1964 1970 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	$(2)\frac{2}{2}$		1965 1970	1.83	,					
1950–58 1.59 675(34) 1961–63 1.05 5.		1953 1953/54 1957-59 1959-61 1961-63	1970 1975-85 1970-80	.80 1.03 1.40 1.00 .85			SL SL SL		.80(.02)* 1.03(.08)*	
1961–63 1.05 SL .99 34.8(1.3) 1951–62 1.03 t		: 1950-58		1.59			LI	66.	675 (34)	
1951–62 1.33 18/08 DL .97 1.33(.1) 1951–62 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2 1.35 2		: 1961-63		1.05			SL	66.	34.8(1.3)	
1950–58 1.55 2 COLUMN CONTRACTOR OF THE TOTAL DIA 96 1.55(.1)	:			1.33	18/08		DL	76.	1.33(.1)	.08(.23)
: 1950–58 1.55 £ the contract of the contra			1965							_
		1950-58				N. 1 SECTION 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	TO -	96.	1.55(.1)	Continued





Table 10 --Netherlands: Demand elasticities for meat products

Reference	Reference information	u u		Elasticity of:	••			Statistical in	information	**
Commodity and source	Historical Projection	Projection	Income	Own-price	Cross-price	Equa-	R ² :	Coefficer Income :	Coefficenti & standard error come : Own-price : Cross-	d error Cross-pric
Beef/veal: AERI(67) <u>1</u> /		1970-75	.60 to .65	-,55 to -,60						
FAO (65) 2/ FAO (67)	: : 1961–63 : 1964–66	1965 1975-85 1970-80	. 45			SL				
Gruen(68)	: 1959-61	1980	07.			SI				:
Krohn(62)	•• ••	1970	.45							
: мsu(68) <u>3/</u>		1970–75	.80	71	.20 pork 1.10 poultry					
OECD(68)	: : 1961–63 :	1975-85	.44			11	.23	52.32(26)		
Weber(61)	: : 1950-58 : 1950-58			4/80	1.03 pork	7d	. 80 . 95	1.33(.2)	1.33(.3)	1.03(.7)
Pork: FAO(65) <u>2</u> / FAO(67)	: : : 1961–63 : 1964–66	1965 1975-85 1970-80	.30			ST				AbE VILENT L
Krohn(62)	•• ••	1970	.32							
MSU(68) <u>3/</u>	•• •• ••	1970-75	09.		i .10 beef i .05 poultry					
OECD(68)	: : 1961–63 :	1975-85	.34			11	.33	.064(.026)		
Weber(61)	: 1950-58 : 1950-58 : 1950-58		1.49 .86 .81	$\frac{5}{6}/23$ $\frac{6}{6}/78$	21 beef 4/	DL DL	डाड <u>ा</u> ड	1.49(.2) .86(.27) .81(.30)	.23(.18) .66(.33) .78(.42)	.21(.40)
	••		<u>.</u> ල : ්	TOTAL	VP- 4 2-9 + 10 10 10 10 10 10 10 10 10 10 10 10 10		!		_	
			. 0.9	The state of the s	# Part Stat Britis tare				Continued	
			20%							

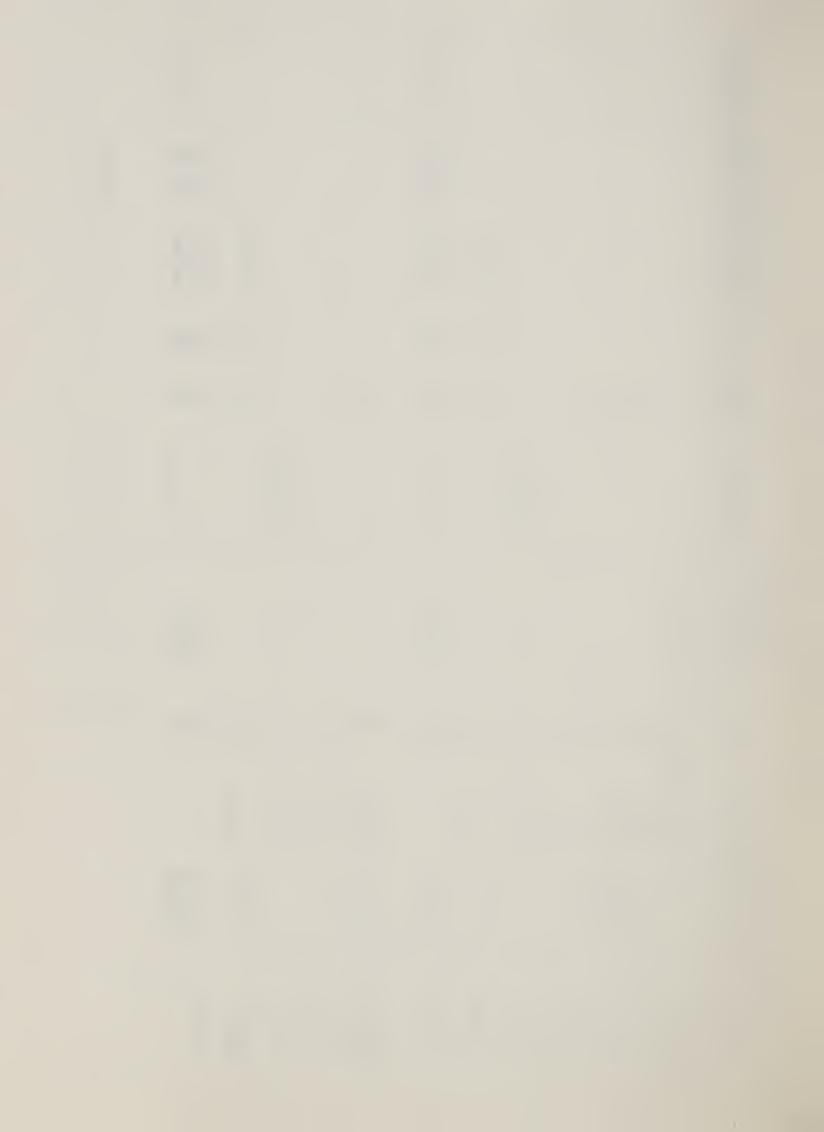


Table 10 --Netherlands: Demand elasticities for meat products, continued

Reference	Info	u u		Elasticity of:		•• ••		Statistical information	formation	
Commodity and source	Historical Projection	Projection	Income	Own-price	Cross-price	Equa- :	R.Z.	ı	Coefficient & standard error come : Own-price : Cross-price	price
FAO(67) FAO(71) FAO(71) FAO/CCP-5(71)	: : 1961-63 :: 1964-66 :: 1962-68	1975-85 1970-80	1.30	-1.10		DI				
Krohn(62)	•••••	1970	3.32	- :					`≥- ••	% ()
MSU(68) <u>3</u> /	••••	1970-75	1.50	-1.00	.20 beef .30 pork					् ट ~
OECD(68)	: 1961–63 ::	1975-85	3.78			7S ST	76.	10.2(.6)	N.C. LOTTA	Nul-2004
Mutton/lamb: FAO(67) FAO(71)	: : 1961-63 :: 1964-66	1975-85 1970-80	. 40	•.		SL			N 201 ACI	
Gruen(68)	.: 1959-61	1980	07.	1	1	Sr			A Tanif	
OECD(68)	.: 1961-63		1.57	a -,-		ı	.02	.003(.003)	3v≪., to	
Other meat: FAO(67)7/ FAO(71)7/	.: 1961-63 .: 1964-66	1975-85 1970-80	.30		-	ST ST			Single V	
Krohn(62)	•• ••	1970	24	,					-	ayar ram
Total meat: FAO(62)8/ FAO(62) FAO(71)	.: 1951 .: 1957-59 .: 1961-63 .: 1964-66	1970 1975-85 1970-80	.43 .70 .46			SF SF		.43(.04)		
Goreux(60)	: 1950-58		.54	- - -		LI	76.	453(38)		
OECD(68)	: 1961-63 ::	1975-85	.55			LI	.81	,65.09(10)		
Regier(66)	.: 1951-62		.63	9/41		DIC	96.	.63(.16)	.41(.15)	
Weber(61)	1950-58		1.06.17	1 2 27 03 -/ 01	For willing the Bound	-	0	1 06(2)	(46 /03	-

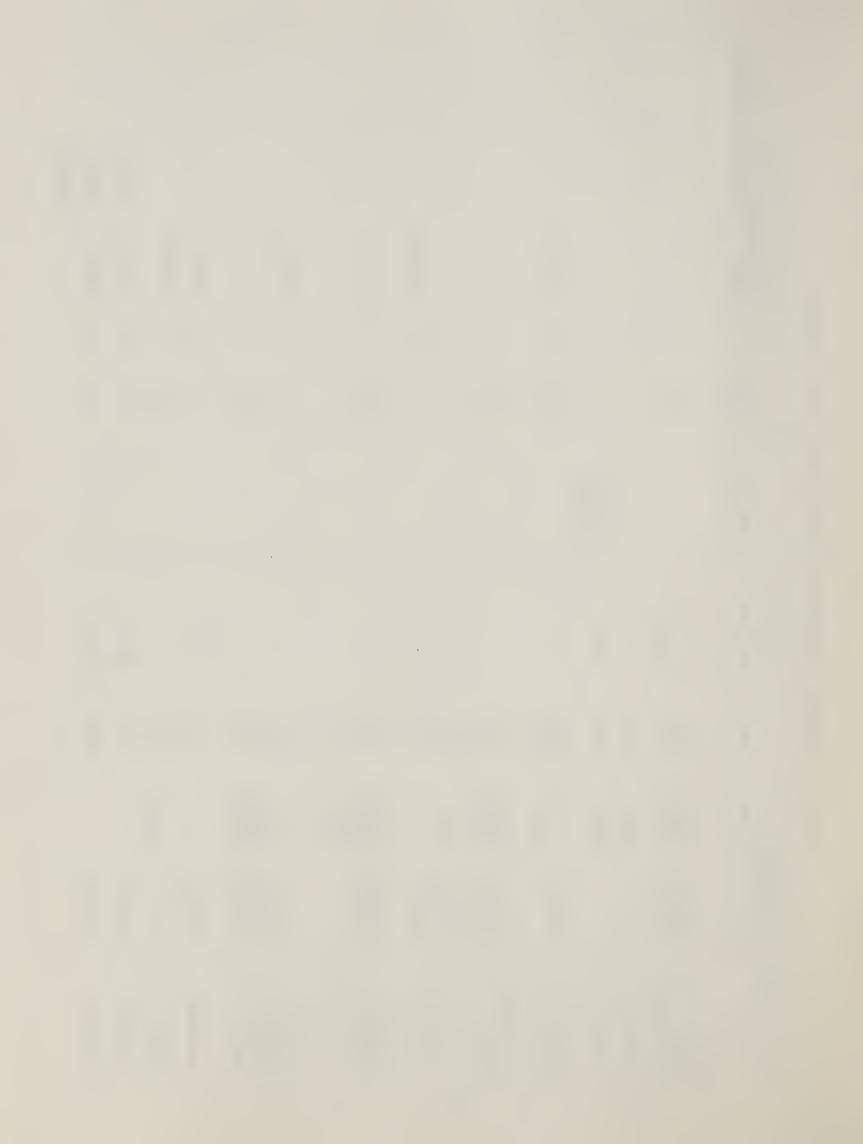


Table 10 --Netherlands: Demand elasticities for meat products, continued

Reference information :	Elasticity of			Statistical information	и	
and Historical Projection	Income : Own-price :	Cross-price	Equa- : R ² : tion :	: Coefficent & standard : Income : Own-price :	만 …	error Cross-price
: 1961–63 1975–85 : 1964–66 1970–80	. 40		7S 7S			
Elasticities estimated by the Dutch Central Estimate made in 1961 for a 1965 projection. Income and price elasticities derived from d Roast beef price.	mated by the Dutch Central Planning Bureau. 1961 for a 1965 projection. elasticities derived from different sources.				- 401	- 3:0 1
Average price of pork chops and bacon. Processed meat, game, and edible offals. Based on survey of urban household expen Real farm-level price.	game, and edible offals. of urban household expenditures for all meats. price.				N. 10. J. 70. F. V	774 5 7673
Deflated price index for meat and fish (1954=100).	(1954-100).				VV nis	C 5 86 a
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Table 11 -- United Kingdom: Demand elasticities for meat products

Commodity and	: Time	Time period :		Elasticity UI	: 10	••	Statistical	al information	u
	Historical	Historical Projection	Income	Own-price	Cross-price	Equa- : R2 : tion :	: Coefficient	: Own-price :C	ard error:
Beef/veal: Edwards(69) $\underline{1}/\dots$		1975	*47*	-2.28	.49 mutton	8 <u>2</u> /			
FAO(67) FAO(71) FAO/CCP-6(71)	: 1961-63 :: 1964-66 ::	1975-85 1970-80 1980	.30	92	.16 pork 1.15 poultry 1.36 mutton/lamb 1.14 bacon/ham	LI SL b		*90 t	-200 t
Gruen (68)	1959-61	1980	.50		·	SL		.13H %	
MSU(71)	1955-68	1980	.71	-2.49		DL	1.3(.21)	2.49(.4)	.52(.12)
Oxford(62) Oxford(62) Oxford(69)	: 1955–59 : 1959–63	1965 1965-75 1970-80	.33	-1.03				 - - 	1
Sturgess (72)	1969/70	1977/78	. 40	-2.00	. 30 pork . 30 poultry . 50 mutton/lamb . 15 bacon/ham . 10 fish	,		Mi,W BdAi	HIN BUKE
U.K. (71)	: 1955 : 1958 : 1960 : 1962 : 1965		.08 02 .07 .09						
U.K. (73) U.K. (75) U.K. (76)	: 1967 : 1969 : 1971 : 1973 : 1974		. 16 . 30 . 36 . 32	0 m	· · · · · · · · · · · · · · · · · · ·	· 10 10 10 10 10 10 10 10 10 10 10 10 10	.16(.02) .25(.04) .30(.05) .36(.02) .32(.05)		
U.K. (65) U.K. (71) U.K. (76)	: 1956–63 : 1964–69 : 1969–74	:	10%	-1.29 -1.24	TYPE WITHIN THE LINE F	. DL		1.29(.2)	



Table 11--United Kingdom: Demand elasticities for meat products--continued

### period Time period 1.30 ### source 118 torical Projection Income Own-price ### source 118 torical Projection Income Own-price ### source 118 torical Projection Income Own-price ### source 118 torical Own-price ### source 118 torical Own-price ### source 118 torical Own	Reference	Reference information	u :		Elasticity of:	••	Ste	Statistical information
(76) 1956-66		Time p	eriod :			Cross-price	R ² :	Coefficient & stand
1967-74		1956-66		•	-1.30	y /lamb		•
cds (69)1/; 1961-63 1975-85 .40 71); 1964-64 1976-86 .40 71); 1964-66 1970-86 .40 71); 1964-66 1970-80 .35 71); 1955-68 -1980612.3774 beef 71); 1955-59 1965 .50 74 beef 75 beef 76 mutton/lamb 77 beef 77 beef 78 beef 78 beef 79 b94 79 c.10 79 c.1	.K.(76)	1967-74			\sim	pork poultry mutton/lamb	.28	1.07(.2)
1961-63 1975-85	rds(69) <u>1</u> /		1975	.93	-2.09			
1955-68 - 198061 2.37 - .74 beef SL94 72(.14)737(.2) 1961-63	-6(71)	1961–63 1964–66	1975-85 1970-80 1980		-1.08	beef poultry mutton/lamb bacon/ham		
1961-63 1962-75 1.20	su(71)	1955-68	- 1980 -		2.37	beef mutton/lamb	1	2.37(.2)
1955-59 1965 .5074	ECD(68)	1961–63	1962-75 1975-85	1.79 1.20 .60		11 11		
1969/70 1977/78 .70 -2.10 .55 beef .20 poultry .15 mutton/lamb .15 mutton/lamb .12 bacon/ham .10 fish	xford(62) xford(62) xford(69)	1955–59	1965 1965-75 1970-80	.50	74			
1955 .30 1958 .53 1960 .43 1962 .34 1965 .31 (0.13) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0.14) (0		1969/70	1977/78		-2.10		•	
	ж. (71)	1955 1958 1960 1962 1965 1967		. 53 . 34 . 34 . 32 . 32	000000000000000000000000000000000000000	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		32(.09) 25(.12)

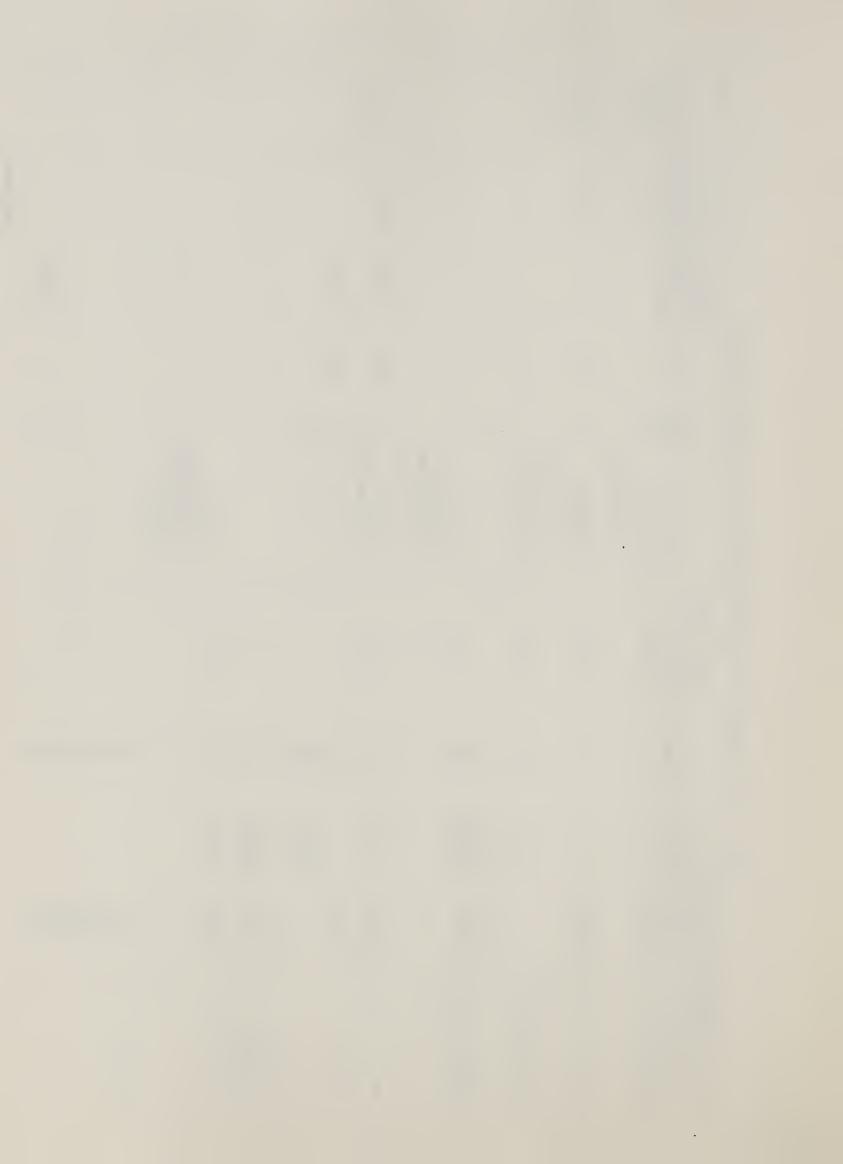


Table 11--United Kingdom: Demand elasticities for meat products--continued

45.19:

Reference information Commodity and : Time pe	rmation : Time period :		Elasticity	icity of:		1 1	1 1	Statistical	tuf.	1 1
torica	Historical Projection	Income	Own-pr	price '	Cross-price	Equa-	R ²	Income : O	Own-price :C	rd error :Cross-price
1971 1973 1974		.31				16 61	•	.31(.06) .29(.11) .23(.18)		
: 1956-63 : 1964-69 : 1965-74			-1.36 -1.12 -1.21			10 DI DI			1.36(.4) 1.12(.3) 1.21(.2)	-
: 1956–66 :			-1.24	: 	.18 beef .20 poultry .46 mutton/lamb	DL up			1.24(.3)	.18(.35)
.: 1967–74			-1.35		.48 beef12 poultry .18 mutton/lamb	DI.	.47		1.35(.2)	.48(.23)
	1975	1.87	-2.42		1.62 mutton/lamb	q	1		\$ _7 . £	S LINE
: 1961–63 : 1964–66 :	1975-85 1970-80 1980	. 80 . 70 . 65	61	 ! !	.59 beef03 pork 60 mutton/lamb .03 bacon/ham	SI.			FEATURE F	(1275) (1270) Tropics (1270)
:1955-68	1980	61.	24	- - ,		SL	96.	7.24	2.26(1.2)	T-01-
: 1961–63	1962-75 1975-85	2.76 1.80 .60		· 		SL LI LI	.93	19.0(2)	 1 ਦੇਨ-	J. (54)
: :1955-59 :1959-63	1965 1965-75 1970-80	2.00	-2.58	, en						
: : : : :	1977/78	06°	-2.40		.70 beef .30 pork .25 mutton/lamb .05 bacon/ham	. :	:	1		
		20%	81,467,4154	- 70	1000 000 000	ř		:		
		150			Total annual and				Continued	*

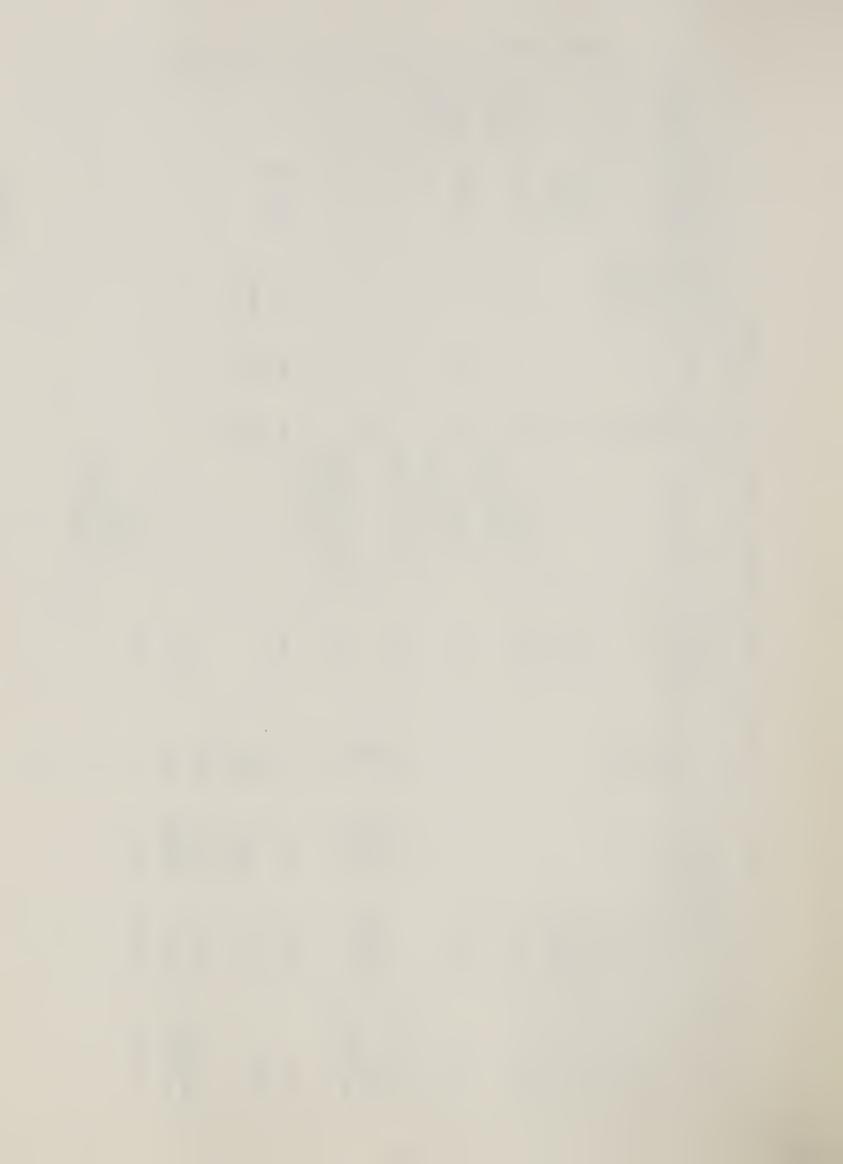


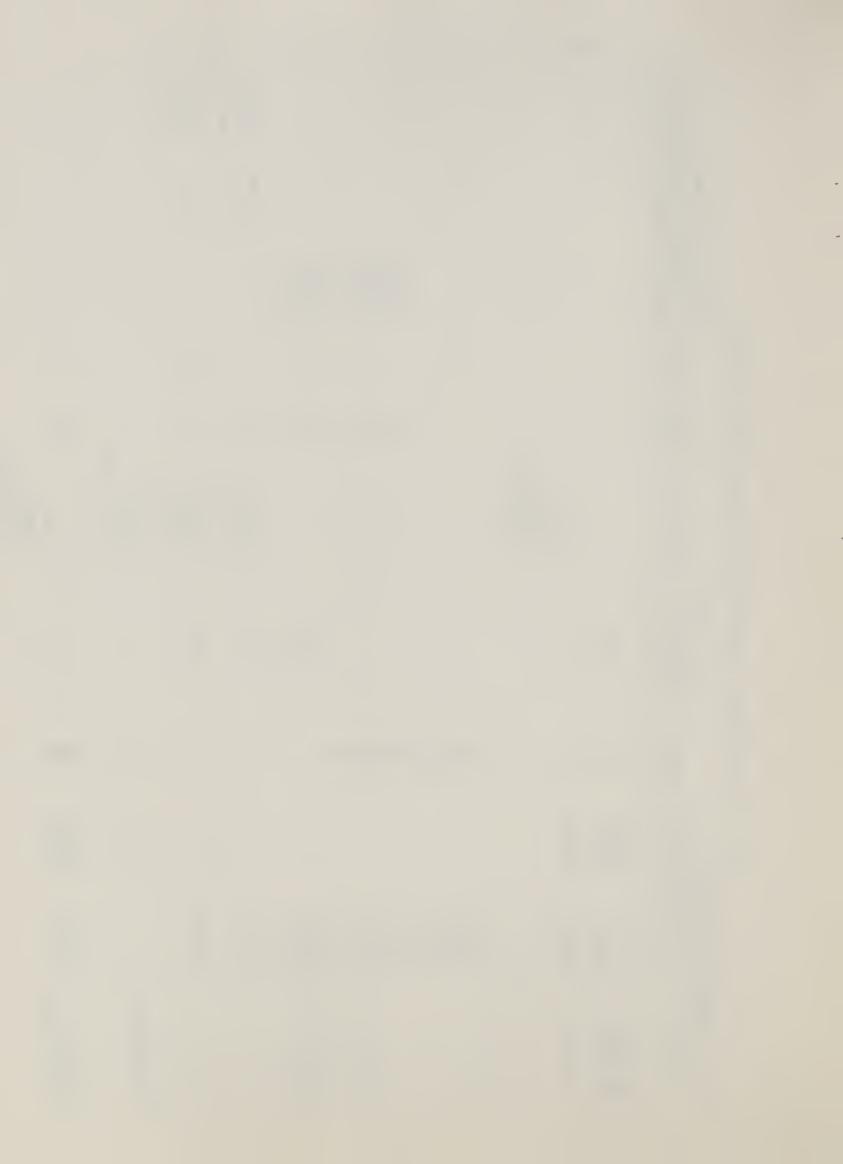
Table 11--United Kingdom: Demand elasticities for meat products--continued

Reference	info	lon :		Elasticity of:	y of:				Statistical	Statistical information	
Commodity and	Time	Time period :					- 1	- 1			
	Historical Projection	Projection	Income	Own-price		Cross-price	Equa-: tion:	R ²	Coeffici	Own-price	Cross-price
U.K. (71) <u>3</u> /	: 1955 : 1958 : 1960 : 1962		1.61 1.40 1.34 .88			-					
U.K. (71) 4/ U.K. (73) 4/ U.K. (75) 4/	.: 1965 : 1967 : 1969 :: 1971 :: 1974		. 53 . 53 . 37 . 37 . 31				of to be		.53(.14) .25(.09) .37(.07) .04(.07)		•
U.K. (65) <u>6</u> / U.K. (69) <u>6</u> / U.K. (76) <u>5</u> /	: :1956-63 :1962-67 :1969-74			-1.15 47 97			12 12 12			1.15(.4)	₽ . [*] ·
U.K.(68) <u>6</u> /	: :1956-66 :	i :	1	-1.26		.68 beef .26 pork 31 mutton/lamb	DL The state of th	1	1	1.26(.4)	.68(.39) .26(.24) .31(.10)
. U.K. (76) 4/	.:1967-74			-1.30		.20 beef 16 pork .53 mutton/lamb	DI.	.22		1.30(.3)	.20(.31) .16(.18) .53(.27)
Edwards(69) <u>1</u> /		1975	.32	-1.83		.83 beef .40 poultry .37 non-carcass	83 80			2 (100)	
FAO(67)	: 1961-63 .: 1964-66 .:	1975-85 1970-80 1980	.30	05	· 	67 beef .13 pork .28 poultry .15 bacon/ham	វីនី			i û	<u> </u>
Gruen(68)	.:1959-61	1980	. 20				SL			manager a long	-
MSU(71)	: : : :	1980	60°-	1.35 ROLL OF THE POPULATION OF	10. 3811 St.	.58 beef %.26 pork %.	Ts.	.72	.11(.19)	1.35(.3)	.26(.26)
	**		85 85 80 80 85 80 80 85 80 80 80 85 80 80 80 80 80 80 80 80 80 80 80 80 80 80 8	7	1017 (1017)			1 :		Continued	t



Table 11--United Kingdom: Demand elasticities for meat products--continued

		standard error price :Cross-price			YES WITH N HOLLIN	F F7 1 1 - 116 (75)	2.7	.07(.18)	.44(.21)		
	ntormation	의님			7. T	· · · · · · · · · · · · · · · · · · ·		.52(.19)	1.43(.2)		Continued
	Statistical information	R ² : Coefficient income i Ov			.10(.06)		.57(.18) .47(.27) 1.12(.2)		.36		
		:Equa- : tion :			70 10	DL DL	70 01	70	DI	ą	LI SL Je
	f:	Cross-price		.80 beef .15 pork .20 poultry .15 bacon/ham				.07 beef .19 pork 10 poultry	.44 beef .12 pork .25 poultry	.23 beef 15 pork .13 mutton/lamb	.26 beef .14 pork .02 poultry 15 mutton/lamb
	Elasticity of:	Own-price :	-1.51	-1.70		t	57 47 -1.12	52	-1.43	777-	62
		Income	. 50	.20	. 35 . 34 . 29 . 21 . 10	01			,	. 24	. 18
	Time period :	Projection	1965 1965-75 1970-80	1977/78						1975	1975-85 1970-80 1980
o information		Historical Projection	1955-59	1969/70	1955 1958 1960 1962 1965 1967		: :1956-63 :1964-69 :1969-74	. 1956–66	: : : :		: 1961–63 : 1964–66
Doforonco	Herein	Commodity and source	0xford(62): 0xford(62): 0xford(69)	Sturgess(72):	U.K.(71)	U.K. (73) U.K. (75) U.K. (76)	u.K.(65):1956-63 U.K.(71):1964-69 U.K.(76):1969-74	i: U.K.(65):1956-66 :	•	Other meat: Edwards(69)_1/:	FAO(67) 7 / FAO(71) $\overline{7}$ / FAO/ CCP - 6 (71) $\overline{8}$ /



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and illstorical Projection	lod		Elasticity of:				Statistical	information	
	jection	Income	Own-price :	Cross-price	Equa-	R ² :	Coefficient Income : Own	ent & standard error Own-price : Cross-price	rd error
1955–58	1980	.24	15	19 pork	TS.	<u>79.</u>	3	.58(.37)	.16(.10)
	1975-85	20	<u>-</u> -		LI				
0xford(62) <u>8</u> /:1955-59 0xford(62) <u>10</u> /:1955-59 0xford(62) <u>10</u> /:	1965 1965 196 5-7 5	. 20	-1.04		••				
Sturgess $(72)8/1969/70$ 19	87/7761	.15	- 06	.30 beef				TYP	
			· _ i	.05 poultry .10 mutton/lamb	q			2 6174	
: 1955 : 1958 : 1960		. 20 . 19 . 18	T = # -					M THIS WA	
1962 1965 1965 1967 1969 1971 1973	\			· · · · · · · · · · · · · · · · · · ·	TO T	1	.11(.03) .08(.03) .06(.03) .11(.02)	E FOR 107 Layour	1
1962-67			56					.56(.29)	
1953/54 : 1957–59 : 1961–63 19	1970 1975-85 1970-80	.40 .40 .35			rı SL		.40(.03)	<u>1</u> 647	
Goreux(60):1950-58		3.26			17	66.	3020(139)		
1961-63		.39	- -		ΓI	.62	43.3(10)		
Oxford(69): 1959-63 19	1970-80	.20 to .30	III. 1901 10's REPORTION	TYPE ALL DE TREE CHA		*			

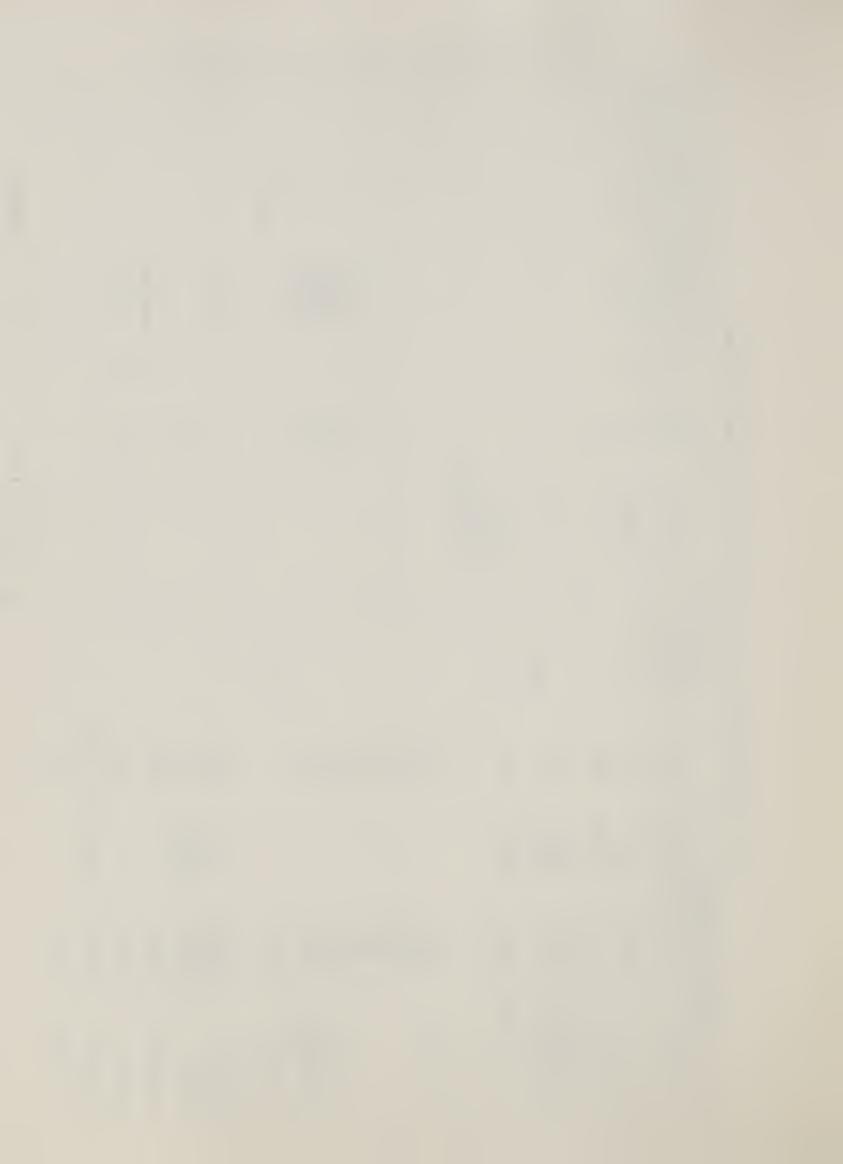
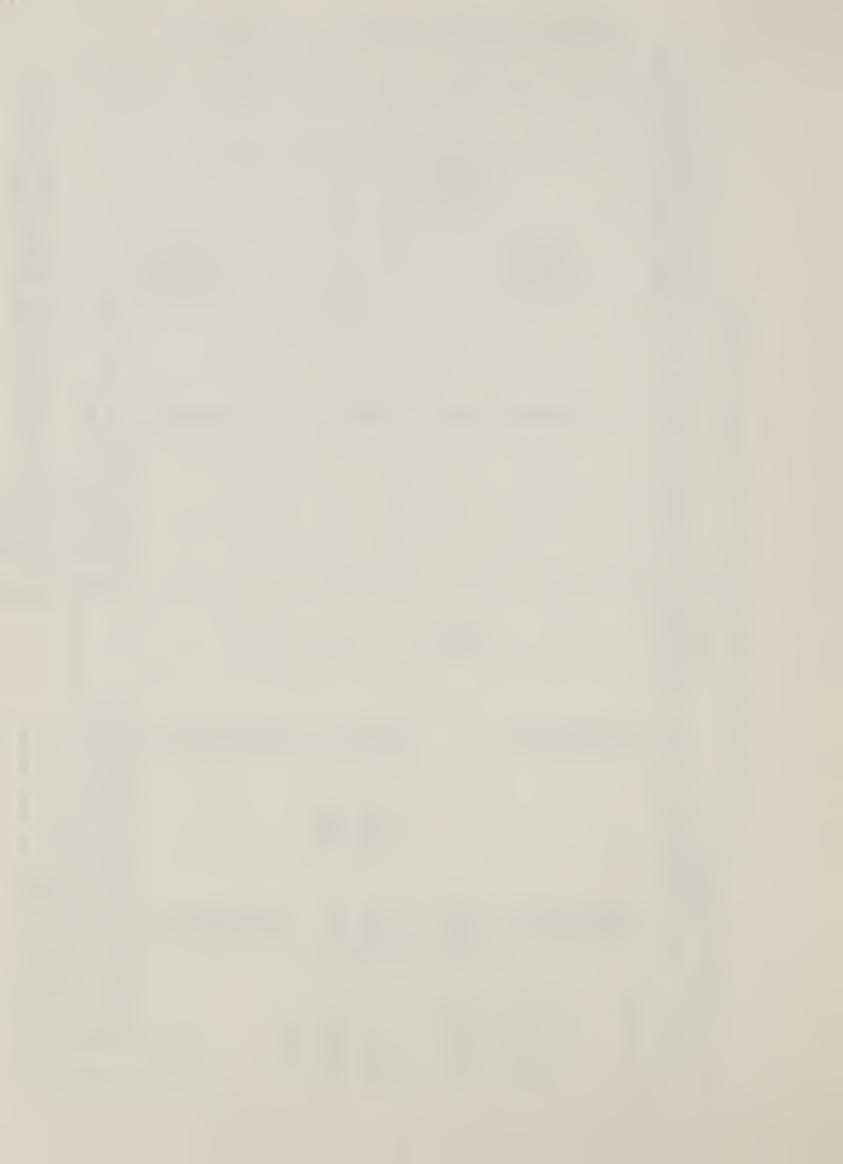


Table 11--United Kingdom: Demand elasticities for meat products--continued

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information	Coefficient & standard error come : Own-price :Cross-price	.03) .03) .03)	.89(.09) .45(.19) .68(.15) .37(.05)		F. TUTT	.05) .05) .05) .05)	meat (includes poultry).
ta	Coef	. 16(.0 . 23(.0 . 21(.0 . 29(.0		: 		.07(.0 .04(.0 .04(.1 .23(.0	fal, and game. s except carcass mesold expenditures of
products(Equa- : R ² : tion :	10 10 10 10 10 10 10 10 10 10 10 10 10 1	ה ה ה ה ה ה	TS		10 12 13 13 13 13 13 13 13 13 13 13 13 13 13	dible off cooked. products f househo
elasticities for meatty of:	Cross-price			! - ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	•		Poultry, unco Processed mea Bacon and ham 9/ Bacon. Canned meat. All meat and Based on surv
Demand Elastici	Own-price			· · · · · · · · · · · · · · ·	-1.24		1fferent sources. $\frac{6/7}{3/4}$ $110/4$ $111/4$
Table 11United Kingdom:	Income	.17 .19 .21 .18 .23 .23		. 20	.30	. 23 . 20 . 23 . 10 . 04 . 04 . 23 . 16	confidence level. confidence level. are derived from different fals.
Table 11U	Historical Projection	4 3 3 2 5 5 6 8	67 67 74 74	.59 197063 1975-85 .66 1970-80	.59 1965 196 5-75	\$ 9 5 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1 1 1 8 0 H
ence :	Commodity and source	U.K. (71) 13/ 1958 1960 1962 1965 1967 U.K. (73) 13/ 1971 U.K. (75) 13/ 1973	U.K. (69) 13/ : 1962-67 U.K. (69) 14/ : 1962-67 U.K. (76) 13/ : 1969-74 U.K. (76) 14/ : 1969-74	Fish: FAO(62)1957-59 FAO(71)1961-63	0xford(62):1955-59 0xford(62):	U.K. (71) 1955 1958 1960 1962 1965 1967 1967 U.K. (73) 1971 U.K. (75) 1973	* Significant at the 99 percent ** Significant at the 95 percent *** Significant at the 90 percent 1/ Income and price elasticities 2/ Bacon, ham, canned meat and of 3/ All poultry meat, uncooked, fi 4/ Broller chicken, uncooked.



THIOTHIGHTON		Elasticity of:	1000	-		Statistical inform	information	
Historical Projection	Income	Own-price	Cross-price	Equa-	R ²	Coefficient &	t & standard error	1
1961-63 1975-85 1964-66 1970-80	1.00			1				
1965	. 50	-1.24	1 .20 pork 1.1.14 poultry 1 .44 fish				—— <u>%</u> 0 ŧ	
1980	.64	٠٠.٠	1 .15 pork 1 .19 poultry 2.7 fish					
1959-61 1980	1.20	:						
1963 1965 1967	1.31			1111	66.	1.1645(.001)	3a 101 8C3	EOM 282 GE
1970 1972 1973		1 1 1 1 1 1 1			06.	.8916(.003)	1	1
1955-64 1964-73 1955-73	1.10 1.18 1.09	96 -1.68 -1.39		10 10	.78 .85	1.099(.3) .958 1.178(.3) 1.68 1.091(.3) 1.38		
1961–63	.90			DI .	.58	.74(.23)		
1961-63 1975-85 1964-66 1970-80	1.20			TS TS				
1965	.72	72	26 beef 17 poultry 09 fish					
1980	.82	FOR 10% REDUCTION	. 14 beef . 12 poultry	•				
1963	1.23	FOR 20% REDUCTION	TYPE WITHIN THIS LINE	DI	- 76	1.172(.002)	and the second s	



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and	THE OF MACE OIL		Elasticity of:		••		Statistical	information		
••	Historical Projection:	Income	: Own-price :	Cross-price	Equa-:	R ² :	Coefficient Income : Own-	& stand-price	& standard error price :Cross-price	e
Japan(74)1/: 1967	7	.87		٠.	DL					
••	6	.75		1	TIO .					
: 1970 : 1972		.67	ŕ		70					
: 197	.	.61			DĽ	96.	.613(.001)			
Japan(74) <u>2</u> /: 1955-64 : 1964-73 : 1955-73	-64 -73 -73	2.78 1.46 2.20	-1.83 -1.76 -1.07	<u> </u>	הר מר מר	96. 96. 86.	2.779(.2) 1.46(.2) 2.20(.1)	1.83(.3) 1.757(.5) 1.072(.4)	% 0 €	र ि दे
0ECD(68): 1961-63 0ECD(68):	-63 1962-75 1975-85	1.47 1.50 1.50			la or	.68	1.47(.4)	V31230038	POLLOGE	140/Juni 18
Poultry: : 1961-63 FAO(71): 1964-66	-63 1975-85 -66 1970-80	1.70	} ; ;		ST ST	; ; ;	1 ! !	 - - - - - - - -	i 1	¥ 432 1 5 5 5
F111ppello(70) .: 1965 :	5	56.	-1.16	.35 beef .11 pork .09 flsh				SNIT SIR£ N.	BN/R SHE S	in Some to
: F111ppello(70):	1980	1.18	.88					HIIV D		redi⊒in riodio
Japan(74) <u>1</u> /, 1963 : 1965 : 1967	5 7 5	.90			70 70 70	.87	.73(.003)	4.1	e ()	
: 1970 : 1970 : 1973	332	. 53 . 37 . 31				$\frac{3}{50}$.3105(.003)			
Japan(74) <u>2</u> /: 1955-64 : 1964-73 : 1955-73	-64 -73 -73	3.10 .56 2.95	-1.19 -2.33 +.04	-	or or	.99 .92 .99	3.102(.2) 4.5628(.53) 2.95(.2)	1.188(.8) 2.325(.9) .0432(.44)		, ,
OECD(68): 1961-63	-63 1962-75 1975-85	3.47 1.90 1.30 % L	Fare 10.2 for this title.	TYPE WITHIN THE LINE	710 710	.92	3.47(.4)			

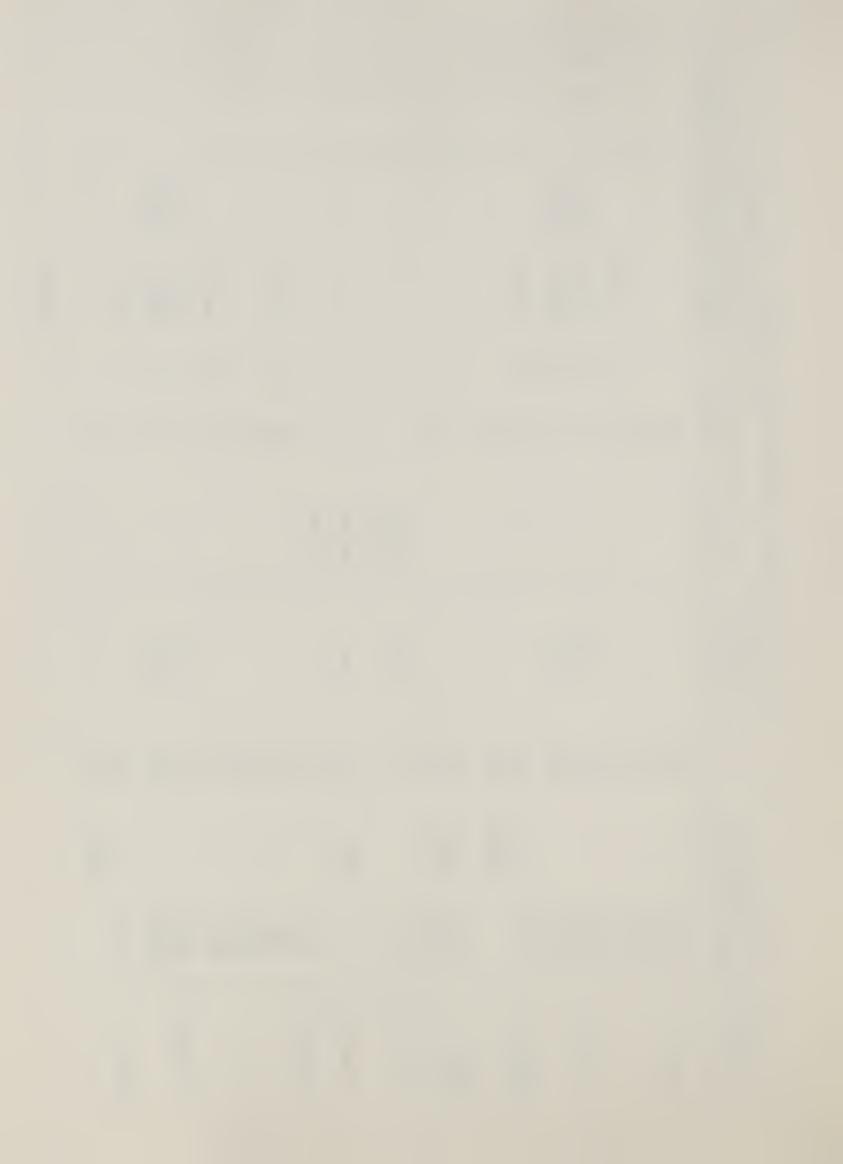


Table 12 -- Japan: Demand elasticities for meat products -- continued

and	ty and Time period	eriod		Elasticity	of:		Statistical infor	information
Bource	Historical	Historical Projection	Income	Own-price	Cross-price	Equa-: R2	Coefficient	H
Mutton/lamb:			-				· Pinconia	Own-price :Cross-pri
	1961–63 1964–66	1975-85 1970-80	1.40			SL		
Gruen(68)	1959-61	1980	3.00			7S		
	1961-63 1964-66	1975-85 1970-80	. 80		·	SL SL	*	÷0₹
Japan (71) 4/5/	1963 1965 1967 1969 1970		1.45 1.74 1.32 1.04 .68			DL .93 DL .96 DL .96 DL .96 DL .96 DL .96	1.449(.1) 1.744(.1) 1.325(.1) 1.041(.1) .68(.08)	NO LONGS NOT AC
Japan(74) <u>2/6</u> /:	1955-64 1964-73 1955-73	1 	2.00	-2.86 -30 -3.13		1		i :
Japan (74) <u>2/7/</u> :	1956-65 1964-73 1956-73		2.43 1.14 1.42	$\frac{8}{1.36}$		ה ה ה ה		
•••••		1975-85	1.00			i id		
• • • • •	1957-59 1961-63 1964-66	1970 1975-85 1970-80	1.70 1.12 .79			SL SL		
Japan (74) <u>1/5</u> /:	1963 1965 1967 1970		1.33 1.29 1.13 .92 .84			DL93	1.294(.001)	
: Japan(71) <u>2/5</u> /	1973 1958-70		. 80	Log 105 1 10110H	TARE ALTHUI THIS FIRE	• 1	•	
••	1963-70		1.0g	FOR 20%	TYPE WITHIN THIS LINE	96 Id	1.383(.1) .44	.5311(.39)



· Table 12 -- Japan: Demand elasticities for meat products--continued

Commodity and	Reference information	1 tod		Elasticity	of:	••••		Statistical 1	information	
alle	Historical Projection	Projection	Income	Own-price	Cross-price	Equa-	R ² :	Coefficient Income :	Own-price :Cross-price	100
OECD(68)10/	: 1961-63 : 1961-63 :	1962-75 1975-85	1.45 1.64 1.40 1.40			DI DI SI	.93	1.45(.15)		
Fish: FAO(62) FAO(67) FAO(71)	: 1957-59 : 1961-63 : 1964-66	1970 1975-85 1970-80	. 50 . 30 . 30		· ·	ri ri				
(70)	: 1965 :		41	. 38	. 33 beef . 21 pork 15 poultry				P.C.L. VAGA	36 <u>9</u> 7 de Tikulijas
F111ppello(70)	• •• •• ••	. 1980	13	44	.39 beef .29 pork .23 poultry					ica (et Matrica
Japan (74) <u>1/5/12</u> /.	: 1963 : 1965 : 1967 : 1970 : 1972 : 1973		. 65 . 50 . 52 . 47 . 39			DE D	£ .	.4518(.002)		aoj - Tuliupak q granian wiwiana.
Japan (71) <u>2/5/12</u> /.	1955-62 1963-70 1955-70		. 52	-1.03 81 59		DE DE	.84 .78 .73	.5179(.10) .7218(.30) .4424(.08)	1.035(.28) .8121(.25) .5918(.10)	
Japan (74) <u>1/5/13</u> /.:	1963 1965 1967 1969 1970 1972		. 60 . 63 . 53 . 54 . 54		· 		76.	.537(.0001)		
Japan(74) <u>2/13</u> /	1955-64 1964-73 1955-73	ul	.45 1.33 3/ <u>8</u> / .14	-1.25 88 <u>8</u> /+.16	1	DE DE				
			251		1			Continued		

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Table 12 -- Japan: Demand elasticities for meat products -- continued

Commodity and source instruction income income income income income instruction source instruction income i	:Equa-: R2: Coefficient & standard error: tion: Income: Own-price:Cross-price
-section elasticity for all non-farm households. arm households in cities larger than 50,000 population. ss than .64. ssed meats - excludes pork, ham and sausage. uption measured as expenditure. ge. It t-value less than 1.0. Alamb, horse meat, etc. les whale meat. seafood. I and dried seafood.	
s than .64. sed meats - excludes pork, ham and sausage. ption measured as expenditure. e. t -value less than 1.0. /lamb, horse meat, etc. es whale meat. seafood. and dried seafood.	
t t-value less than 1.0. /lamb, horse meat, etc. es whale meat. seafood. and dried seafood.	
/lamb, horse meat, etc. es whale meat. es whale meat. seafood. and dried seafood.	\$91
seafood. and dried seafood.	· :
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Table 13 -- Belgium: Demand elasticities for dairy products

					4.1 10 10 10 10 10 10 10 10 10 10 10 10 10					
,	Continued-		4	11			40	1980	1959-61	Gruen(68):
				TI SI	: = = = = = = = = = = = = = = = = = = =	 - - - -	.30	1975-85 1970-80	1961–63 1964–66	FAO(67)
.15(.10)**	.96(.27)* 1.33(.3)*	.45(.13)* 1.11(.2)*	.76	DF	.15 margarine	<u>5/.96</u> = <u>-</u>	45		1950-63 1950-63	Butter: : : : : : : : : : : : : : : : : : :
	.4(.20)	.751(.05) .783(.05) 4868(280)	.95 .96	DI SI		40	.75		1953-64 1953-64 1953-64	SESO (67)
		36.16(15)	.32	33		<u>-</u> .	.32	1975-85	1961-63	OECD(68)
The second of th					-	•	.03	1970-75		(89) MSU
							.03	1970		Krohn(62)4/;
-				171	•		30	1980	1959-61	Gruen(68) <u>3</u> /
:	:	:	; ; ;	ri ri	1		.10	1975-85 1970-80	1961–63 1964–66	Milk, whole: FAO(67)2/ FAO(71)
		1218(937) .305(.25)	लंड	SL			.30		1953-64 1953-64	SESO(67)
		50.1(32)	.12	rı			44		1961-63	OECD(68)
						20	07.	1970-75		MSU(68) <u>1</u> /
						• · · · · · · · · · · · · · · · · · · ·	.40	1970		Krohn(62)
				ri ri			.40 .20 .10	1970 1975-85 1970-80	1957-59 1961-63 1964-66	Eggs: : : : Eggs: : : : EAO(62): FAO(71):
Cross-pric	Coefficient & standard error come : Own-price :Cross-price	Coefficie Income :	R ² ·	:Equa-	Cross-price	Own-price :	Income	Historical Projection	distorical	Commodity and source
	information	Statistical in				Elasticity of:		n :	information Time period	

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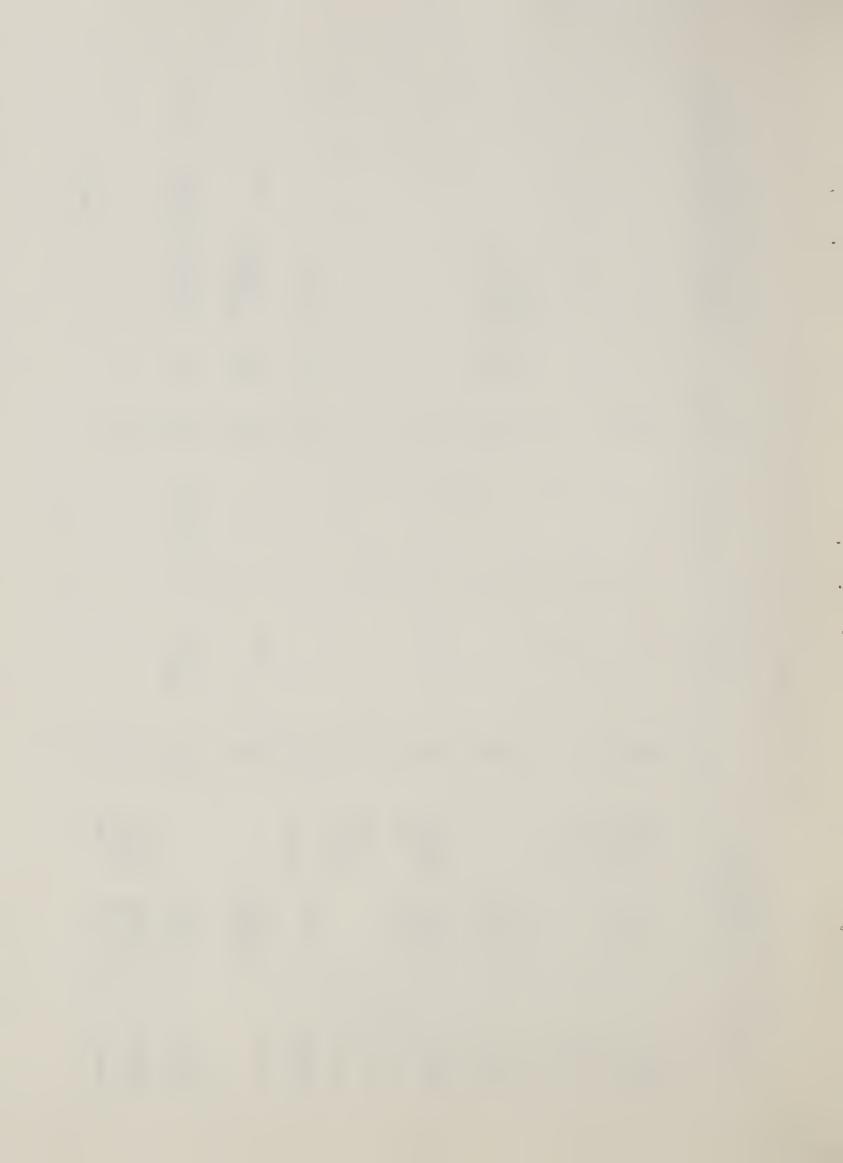


Table 13 -- Belgium: Demand elasticities for dairy products--continued

Reference	Reference information	on :		Elasticity of:				Statistical information	nformation	
Commodity and							1			
source	Historical	Historical Projection	Income	Own-price	Cross-price	: tion :	R	Coefficient & Income : Own-	Own-price :Cross-price	rice
Krohn(62) <u>6</u> /		1970	21	•						
OECD(68)6/	.: 1961-63		62			ГI	48	70.82(22)		
MSU (68)	• ••	1970-75	.30							ran The
SESO(67)	1953-64 1953-64 1953-64 1953-64		45 52 53	+.52		7S 70	1919	.451(.09) .523(.1) 4540(856)	.522(.22)	53
Cheese: FAO(71)	1964-66	1970-80	09.			IS			-	
Gruen (68)	1959-61	1980	.70			11			- 019	
Krohn(62)	•	1970	. 20				,	4	# T	
MSU(68)	•	1970-75	.20							
OECD(68)	1961–63	1975-85	.60	~	,	ns L	.35	.04(.01)	* :	
SESO(67)	: 1953-64 : 1953-64 : 1953-64		1.00 .68 .68		÷ -	lo DI DI	922	.995(.12) .682(.09) 1759(204)	.577(.19)	
Other milk products: Cream: OECD(68)	; ; : 1961-63	1975-85	2.10	Ser Seri de de es		11	. 83	240.71(34)		Campatholic Lip
Skim milk: FAO(71)	1964-66	1970-80	.30			TS				
Total milk products: FAO(62)	: : : : : : : :	1970	20	4						
Krohn(62):	•• •• ••	1970	12		9()				continued	



Table 13 --Belgium: Demand elasticities for dairy products--continued

diffe diffe.					
and "Historica Projection" income Ovarptice Gross-price ; tion: R : Income : Ovarptice form at the 99 percent confidence level. And a percent confidence level. And cream. And cream. And cream. And a percent confidence level. And cream. And cream. And cream. And cream. And a percent confidence level. And cream. And cr		4		informa	
Itani at the 99 percent confidence level. Itani at the 80 percent confidence level. Itani at confidence and condensed milk. Itani powdered milk. Itani powdered and condensed milk. Itani powdered milk. Itani powde	and 'Historical' Projection	. Own-price	Cross-price	 Coefficient & Income : Own-	
	Significant at the 99 percent confident Significant at the 80 percent confident at the some destinations are destinated to the some destinations are destinated to the source of the sou	ce level. ce level, ved from different sources			
a by using a butter/margatine price ratio. Alent. 10. 10. 10. 10. 10. 10. 10. 1	Excludes milk equivalent of butter.				
	niik amu cream. Includes fresh, powdered and condensed Calculated by using a butter/margarine	milk. price ratio.	· ·		
	Fat equivalent.		0 2/2		
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	F _				
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Table 14 -- Denmark: Demand elasticities for dairy products

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	: Time period	eriod :								
source	Historical Projection	Projection:	Income ;	Own-price	Cross-price	:Equa- : : tion :	R ² :_	Coefficient Income : O	& standa m-price	rd error :Cross-price
Eggs: AUOI(69)1/ AUOI(69)2/ AUOI(69)4/ AUOI(69)5/ AUOI(69)6/ AUOI(69)6/ AUOI(69)6/ AUOI(69)6/ AUOI(69)6/ AUOI(69)6/ AUOI(69)6/	1953–65 :3/1963/65 :3/1963/65	1970-80	1.07 to 1.25 .44 .35 .25	07 to .14	· · · - · · · · · · · · · · · · · · · ·	7S	*16./18.		20€	-502
FAO (62) FAO (67)	: 1957-59 :: 1961-63 :: 1964-66	1970 1975-85 1970-80	30 00		.;	:::				**C+**
MSU(71)	.: 1954-68	1980	.26	17	·.	ITI	.86	.42(.06)	.17(.11)) 32m
OECD(68)	: 1961-63 ::	1975-85	1.21	,	- 	17 78	98 98	14.26(1.8)	TI: 1. T	TED
M11k, whole: AUOI(69) $\underline{1}/$ AUOI(69) $\underline{6}/$ AUOI(69) $\underline{5}/$ AUOI(69) $\underline{5}/$	$\begin{array}{c} \vdots \\ \vdots \\ 1953-65 \\ \vdots \\ \hline \vdots \\ \hline 3/1963/65 \\ \vdots \\ \hline \hline 3/1963-65 \\ \vdots \\ \hline \end{array}$	1970-80	14 to22 22 .00 10	29 to44 29		TIII	.91/.95*	1.6	.29(.08)	1.7.4
FAO(67)7/ FAO(71)	.: 1961–63 .: 1964–66	1975-85 1970-80	.00	•		17			2 7 1-	12
Gruen(68) <u>8</u> /	.: 1959-61	1980	00.			ΙΊ				
MSU(71)	.: 1954-68	1980	.13	32		ITI	.23	.21(.09)	.32(.14)	
OECD(68)	.: 1961–63	1975-85	.15			11	.15	18.16(11)		
Butter: AUOI(69) AUOI(69) 10/ AUOI(69) 11/ AUOI(69) 11/	: <u>9/1953-65</u> : 1953-65 .:: 3/1963/65	1970-80	. 29 . 71 . 30	84 -1.01 72	7.07 margarine 1.23 margarine	DIC .	. 86 . 94 . 85*	.12	70.	- ··· · - · · · · · · · · · · · · ·
AUO1(69)5/ $AUO1(69)6/$	$\frac{3}{1963/65}$. 10			•			-	

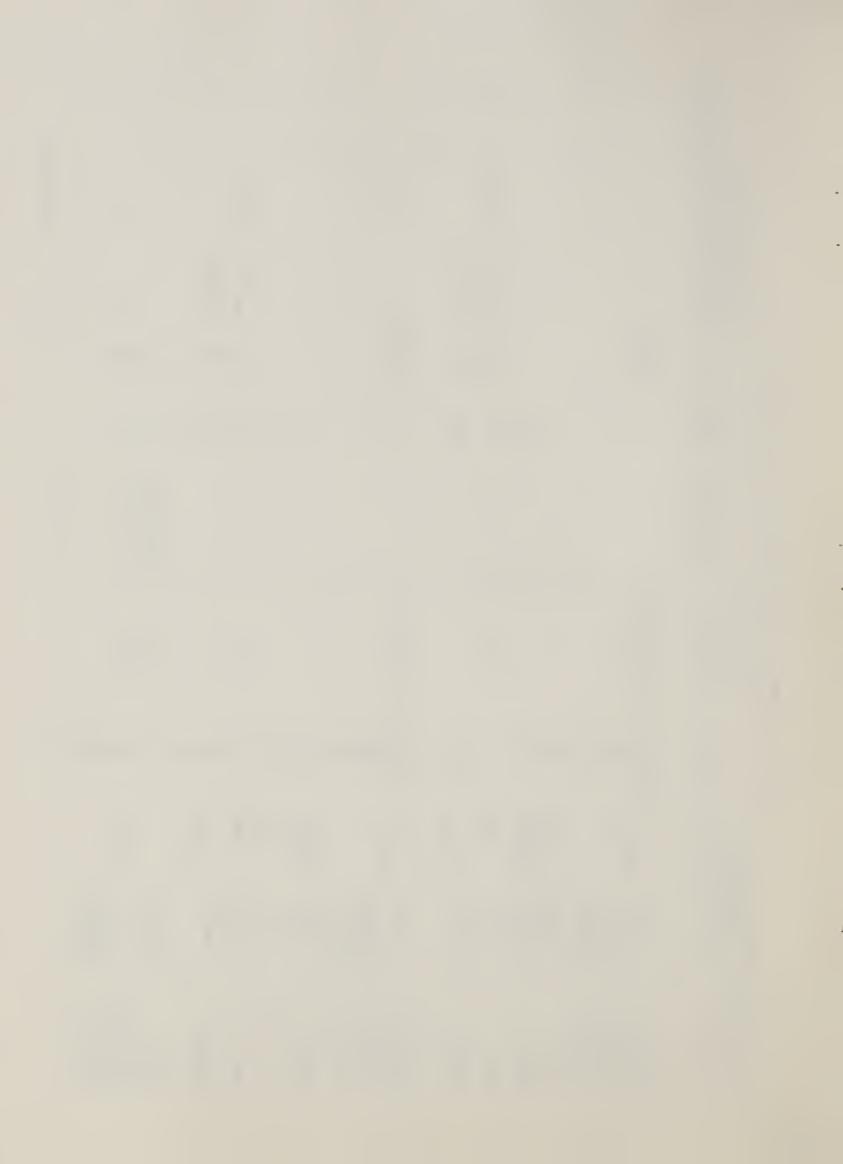
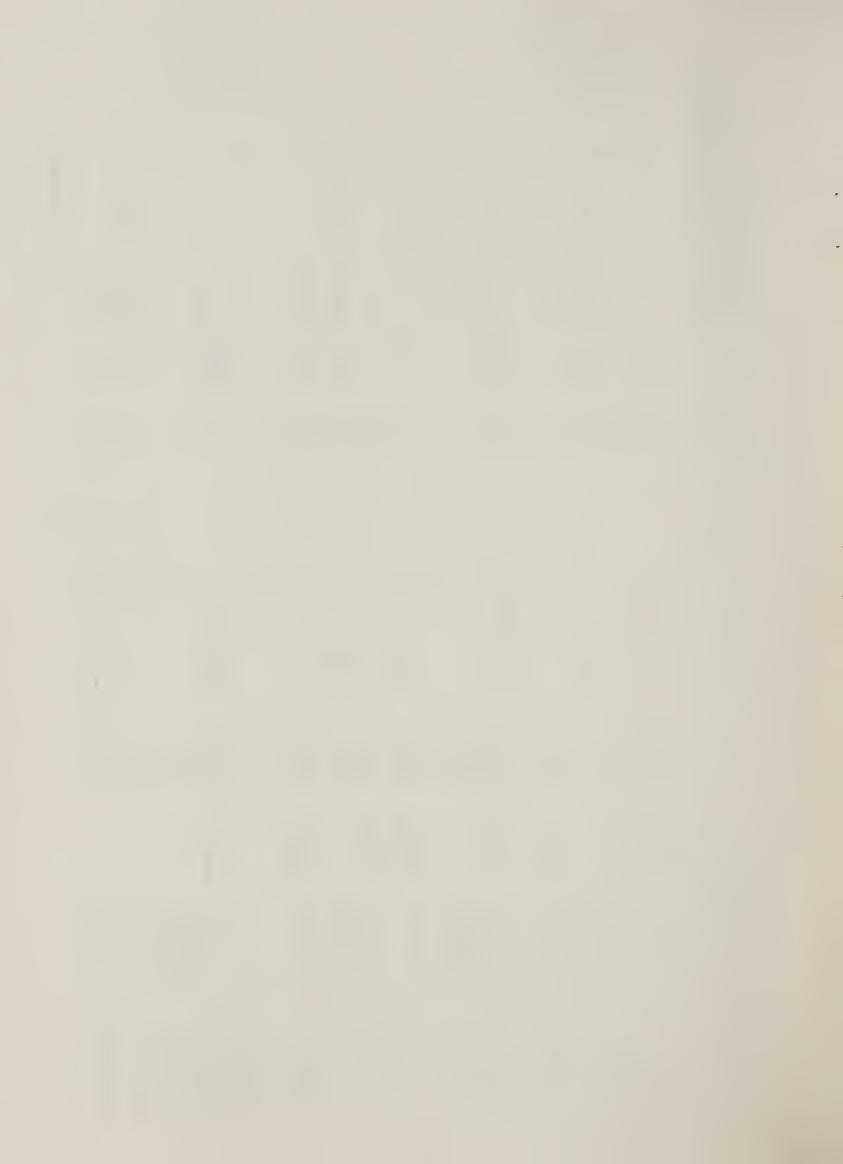


Table 14 -- Denmark: Demand elasticities for dairy products--continued

1.1	Reference	Reference information Time period	n :		Elasticity of:			S	Statistical information	nformation	
	Commodity and source	Historical Projection	Projection	Income	Own-price :	Cross-price	: Equa- : tion :	R ² :	Coefficient Income : O	& standa	rd error :Cross-price
										1	* 4.00
heS	FA0(67)	. 1961–63 . 1964–66	1975-85 1970-80	30			17				
HID!	Gruen(68)	: 1959-61	1980	.10			17				
CI5	MSU(71)	: 1954-68		.57	-1.00		רדו	.92	.50(.04)	1.00(.1)	± 5 € :
71 6 0	0ECD(68) <u>12</u> /	1961–63	1975-85	12			II I	.02	.01(.02)		k.5
9	Cheese: AUOI (69) 1/ AUOI (69) AUOI (69) 4/ AUOI (69) 5/ AUOI (69) 5/ AUOI (69) 6/	1953-65 3/1963-65 3/1963-65	1970-80	1.09 to 1.36 .50 .42 .36	93 to -2.28		7 8	.87/.95*	: : :	1 1 2	I Feb T c
; . D	FAO(71) FAO/CCP-6(71)	1964-66	1970-80 1980	.30	. 99°.		SL			×ଟ୍ଟି. "	12.
7	Gruen(68)	1929-61	1980	.50		<u>.</u> _	ΓI			w er j	
 •	MSU(71)	1954-68		06.	01		TS	.90	9.14(1.6)	.11(.03)	 -, -
Fig. A.	0ECD(68)	1961–63	1975-85	.88			11	.85	106.3(14)		
13	Other milk products: Double cream:13/ AUOI(69)14/ AUOI(69) AUOI(69)5/ AUOI(69)5/ AUOI(69)5/	am: <u>13/</u> / 1955-65 3/1963-65 3/1963-65	1970-80	.72 to .75 .72 .06 .16 17	20 to27 20		SL	.92/.95*	3.19	.19	
	MSU(71)	1954-68		09.	:	H. 23	JO .	76.	.60(.10)	.23(.18)	_
	OECD(68)15/	: 1961-63		03		: : :	TS .	.02	.24(.55)		
		••		22							

continued--



Due to unsatisfactory time-series and cross-section analysis, projections were made based on elasticities from different sources. continued--Years of cross-sectional survey - calendar 1963 and split year Feb. 1964 to Feb. 1965. Range of elasticities calculated from six different demand functions. Cross-sectional results for salaried and wage employees.

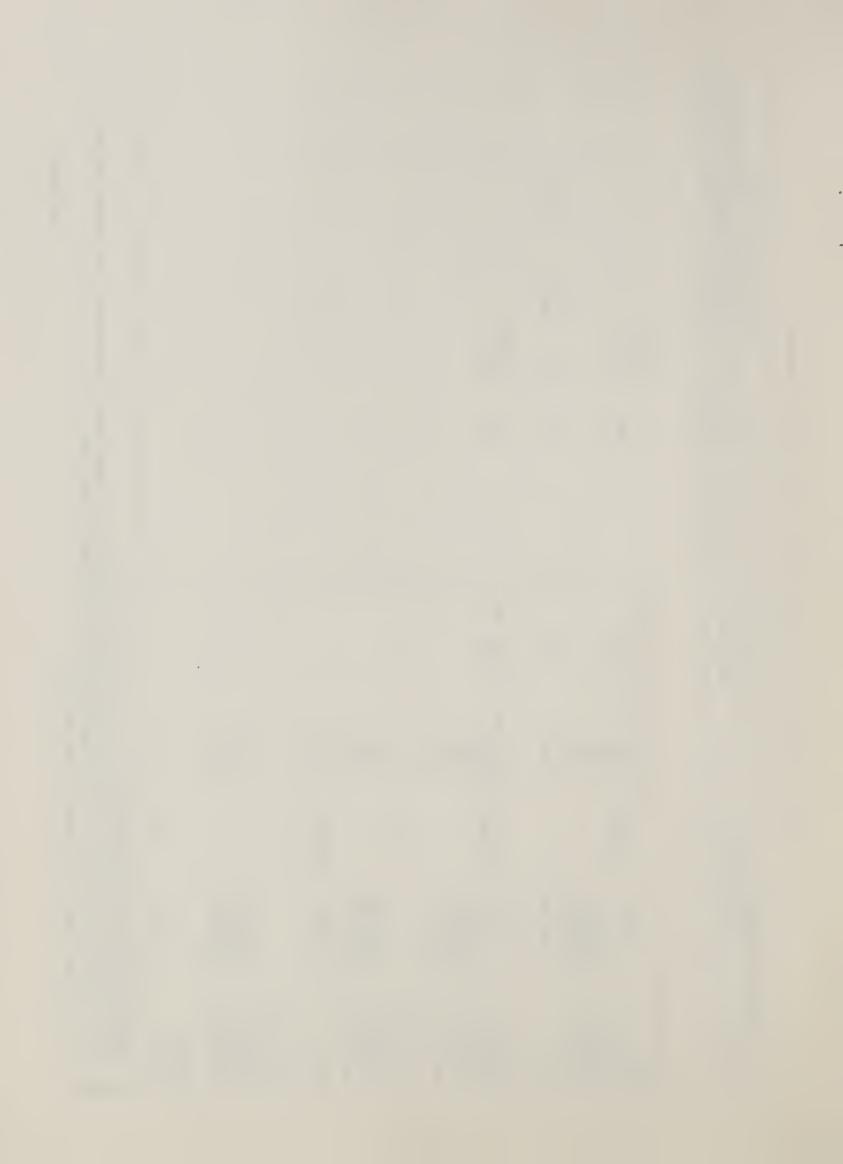


Table 14 -- Denmark: Demand elasticities for dairy products--continued

Consumption measured as per capita expenditure. Dependent variable measures ratio of per capita consumption of butter to that of butter and margarine. Bage capital capital capital consumption (DL, SL, LLI). Spercent butterfat. 18 percent butterfat. 18 percent butterfat.	of butter to that of butter i functions (DL, SL, LLI).		

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Table 15 -- F.R. Germany: Demand elasticities for dairy products

1937-59 1970 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960 1960	Reference	Reference information :		Elasticity of:		•• •	S	Statistical in	information
1937-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940-62 1940	and	Time period :				1	2	Coeffici	ent & standard error
1957-59 1970		Historical Projection:			Cross-price	1		Income :	Own-price : Cross-pr
1957-59 1970									
1955-66 1970-95 .40 1955-67 1970-75 .35 1951-67 1970-75 .35 1951-67 1970-75 .35 1951-68 1970-75 .35 1951-68 1970-75 .35 1951-68 1970-75 .35 1951-68 1970-75 .35 1951-68 1970-75 .35 1951-68 1970-75 .35 1951-68 1970-75 .35 1951-69 .32**55** .32 meat	62)		09.	-		-			- •
1953-60 1965 .61 8.1 8.1 8.1 8.1 19.34(12) 1961-62/63 1970-75 .36 8.1 8.1 8.1 8.1 19.34(12) 1951-62 1970 .31		1961 -6 3 1964-66	9.00			11			
1955-68 1970-75 35 51 51 1955-68 3420 51 1955-68 1970-75 35 51 1955-68 1970-75 35 1970-75 35 1970-75 35 1970-75 35 1970-75 35 1970-75 35 1970-75 32420 51 1950-65 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340*56* 340* 340* 340* 340* 340* 340* 340* 340			;	·		17			
1955-68 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-66 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 1950-65 195			.36			3			
1955-68		1961/62-62/63 1970-75	.35			Sľ			
1950-65 .32*	:	: 1955-68	.34	20		SL	.86	10.78(1)	
1950-65 .12**69* .65 meat*** 94 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95 .95	•	1970	.51		_1				+ 3 14
1950-65			*	*07 -	7.5 most***	ن.	76		
1950-65	•	: 1950-65 : 1950-65	38*	03.	o mean	-	.95		
1950-65		1950-65	,40×	55*	.32 meat	TS.	.95		r r
1950-65 1954 1950-65 1950-65 1950-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1955-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65 1956-65		: 1950-65	*6 7 °	56*	.05 meat	7 TO	č. 06.		. 1.0
1955-65 1.23** 1.23 meat 1 90 1 1 1 1 1 1 1 1 1		: 1950-65	*97.	71*		DF	.90		
1955-65 .25* 55* 17 meat L .90 1955-65 .27* 47* 1955-65 .27* 1955-65 .28* 1955-65 .30* 1955-65 .30* 1955-65 .31* 1955-65 .31* 1955-65 .31* 1955-65 .31* 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1958-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65 1058-65	•	: 1955-65	.23**	53*	.23 meat	-1	.90		
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: 1961-63 .54 1961-63 .545170 poultry .SL .997 185.8(33) 1950/51-61/62 .45 -1.5170 poultry .SL .997 185.8(33)	(68)1/	: : : 1970–75	.40	30	.				-
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38 pork	mer(65)2/	1950/51-61/62	.45	-1.51		· SL	766.	185.8(33)	290.4(88)
	= (50) 13			٠	pork				154.7(81)



Table 15 -- F.R. Germany: Demand elasticities for dairy products--continued

State Constant Time First Constant Constant	1 1	Reference	Reference information	uo.			Elasticity of:				Statistical information	nformation	
1950/51-61/62		Commodity and	Time p	eriod	1				: Foua-	. 25	Coefficie	ant & standar	d error
1950/31-61/62		Bource	"Historical":	Projection:	Income		Wn-price :	Cross-price	tion:	 	Income	Own-price :	Cross-pri
1950/51-61/62	i	L		61/62	.54		-1.38	. 85 poultry . 29 pork	TS.	966.	223.9(29)	569.2(122)	350(92) 120.1(90)
1950/51-61/62 .30			; 1950/51- (61/62	.42		-1.69		SL	566.	174.1(38)	696.8(122)	349.6(96) 123.5(109)
1990/51-61/62			: 1950/51-6	31/62	.50	•	-1.56		SL	66.	205.9(26)	642.6(114)	385.8(92)
1950/51-61/62 70 38 .53 pork St99 264.3 (38) 196.1000 1950/51-61/62 .64 97 .47 poultry St99 255.2 (31) 402.6 (139) 1950/51-61/62 .62 45 .97 .47 poultry St99 255.2 (31) 402.6 (139) 1950/51-61/62 .62 45 .96 .97 .99 255.2 (31) 402.6 (139) 1950/51-61/62 .62 65 .90 .95 .95 .20 1950/51-61/62 .65 65 .90 .95 .90 .90 .95 1950/51-61/62 .65 65 .90 .90 .90 .90 .90 1950-64 .90 20 .90 .90 .90 .90 .90 1952-64 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90 .90		:	: 1950/51-6	51/62	.45		-1.00		SL	66.	187.2(61)	412.8(148)	255.4(164)
1950/52-61/62			: 1950/51-6	51/62	.70		38		SL	. 66.	287.3(38)	156.1(90)	219.3(140)
1940/51-61/62 62 45 101 .95 255.2(31) 402.6(139) 12/2/1 1950/51-61/62 62 45 101 .95 101 .95 101 .95 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(139) 102.6(13			: 1950/52-6	51/62	.64		53		SL	.98	264.3(38)	218.3(87)	
1950/51-61/62			: Long-run		.61		197	.47 poultry	SL	666.	255.2(31)	402.6(139)	195.9(113)
1950/51-61/62		WH11ken (6.2)2/3	•	21/62	63		1 45		2	95			
1950/31-61/62		C /7(70) 24T 0		1/62	79.		7			3			_
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1958-675022 196 1958-675258 196 1957-60 196505 1957-62 196505 1955-68 -1.08		Hesse $(67)\frac{3}{2}/\frac{1}{2}$			57		30		ы н	92 56	.0268(.002)		, ber
1957-60 19650505 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -		Hesse $(69)\frac{5}{1}$			50		22 58			96.			· · · · · · · · · · · · · · · · ·
; 1955-68 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08 -1.08				1965	05				SL				
1970–75 .00							-1.08		DI	.88		1.08(.12)	10-10-00M
: 1961-63 : 1961-63 : 1961-63 : 1961-63 : 197540, hereafter the following and LI		:	• ••	1970	00.		-						
: 1961–6377		MSU (68)		1970-75	00.								
		0ECD(68)	.: 1961–63 : 1961–63	1975	.82				SL DL	1818	68.72(2)		
			•				-		•		Č		



Table 15 -- F.R. Germany: Demand elasticities for diary products--continued

engo escondidados esta entre o no Los trasos escondidades en originados en a numa engolas especies e por com

Reference	Information :		Elasticity o	· ; jo			Statistical information	formation
Commodity and source	Historical Projection	Income	Own-price :	Cross-price	:Equa-:	R ²	: Coefficient & Income : Own-	own-price :Cross-price
Stamer(65) <u>2</u> /	1950/51-61/62 Long-run	97	08		TS TS	86.	106.3(5)	10.86(47)
Butter: Elz(67)	1950-63 1970	77.	78	28 margarine	DI	.97	.44(.03)**	.78(.17)** .28(.19)
FAO(67)	1961-63 1975-85 1964-66 1970-80	.20			TI ST			
$\frac{1}{6011nick(62)8/.5}$	1954-61	.33	69		DL	68.	.33(.11)	.69(.15)
: Gruen(68)	1959–61 1980	.40		-	ΓI			
Hesse (67) Hesse (67) $\underline{5}/11/$ Hesse (67) $\underline{5}/11/$ Hesse (67) $\underline{3}/$	1954-63 1954-63 1954-63 1954-63	. 40 40 91 87	40 44 42 -1.61	64 margarine 58 margarine 57 margarine -1.16 margarine	44444	98 197 197 198 198	10/* 112/* 113/**	.4612(.18)***2.129(.6)** .1277(.03)** .4807(.08)* .1235(.20)* .4743(.08)* .4.776(1.6)** 9.793(5.2) 1.272(.20)* 2.247(.7)**
Hesse $(69) \frac{5}{2} / \dots$ Hesse $(69) \frac{3}{2} / \frac{5}{2} / \dots$ Hesse $(69) \frac{5}{2} / \dots$	1954-67 1954-67 1963-67 1963-67	. 63	52 -1.41 56	52 margarine 80 margarine .25 margarine	SE SE SE	.77 .73 .93 .93		
IFO(67)	1957-60 1965 1957-62 1961/62-62/63 1970-75	.35			DL SL SL			
Kost (75)	1955-68	.42	97*-		177	76.	.66(.05)	.46(.17)
Krohn(62)15/	1970.	.26	٠.					
MSU (68)	1970–75	07.		<u>'</u> -				
0ECD(68)15/	1961-63	.53			ΓΙ	98.	64.05(8)	
Stamer(65) <u>2</u> /	: 1950/51-61/62 : 1950/51-61/62 : Long-run	. 51	. 83 . 58 . 63	.30 margarine	, St St	.92 .92 .99	6.894(.7) 8.469(2.7) 7.005(.3)	13.838(4) 9.741(8.1) 10.44(1.8)
	••	> :	: : : :				Continued	-



Table 15 -- F.R. Germany: Demand elasticities for dairy products--continued

Tiga ang interpretable to the common of the

Reference	Reference information			Elasticity of:	of:			Starfstical in	information	
Commodity and	Time period	e Po		(aranana				Thornton	110111111111111111111111111111111111111	
ł	Historical Projection	ection	Income	Own-price	Gross-price	:Equa- :tion	R ² :	In	Coefficient & standard error come : Own-price : Cross-p	L & standard error Own-price :Cross-price
, de										
FAO(71)	: 1964-66 1970-80	08-0	.50			SL				
Gruen(68)	: 1959-61 19	1980	.30			11				
Hesse (67) 5/	: 1950-64 : 1958-63 : 1958-63		.23	$\frac{16}{17}$ 53	. 28 pork	of St	<u>87.</u> 72.	.5734(.07)* .2183(.07)* .1893(.09)***	1.327(.6)*** .2555(.28) * .3622(.35)	.281(.19) .3037(.20)
Hesse (67) <u>3/5</u> /			. 28			SI	.58	1.04(.2)*	2.167(
Hesse (69)	: 1958–67 : 1958–67		.21	.16		SL	96.			
IF0(67)	: 1957-60 1965 : 1957-62 : 1957-62	1965	.19		· 	SL				
-	: : :	C1-0161	07.		; · · · · · · · · · · · · · · · · · · ·	ָמָר.	,			
Kost(75)	: 1955-68		67.			SL	.97	.059(.003)	** .	
Krohn(62)		1970	.19							·
MSU(68)	: 1970-75	0-75	.19		- ·-·					
OECD(68)	1961-63 1961-63	1975-85 1975-85	.30 1.24 1.00		· <u>-</u> -	DL DL LI	98	.2953(.04) 1.241(.05)		
Stamer $(65)2/$:1950/51-1961/62 : :	a	. 22	65	09 poultry +.31 pork +.14 butter	SL	.97	2.173(.4)	5.723(4.0)	.833(1.4) 2.982(1.5) 1.316(1.8)
-	:1950/51-61/62		.24	52	+.12 poultry	SL	.95	2.303(.5)	5.021(4.7)	1.112(1.7)
	: 1950/51-61/62 :		.25	09*-	+.16 poultry +.27 pork	SL	.97	2.39(.25)	5.81(3.8)	1.593(.95)
	: 1950/51-61/62 : 1950/51-61/62		.22	16	+.20 pork +.10 butter	ST	.96 .95	2.102(2) 2.042(.2)	1.522(3.1) 3.903(.4)	1.947(1.4)
·	:1950/51-61/62		. 22	20	T.11 pouttry	TS ST	.94 .94	2.10(.2)	5.016(4.3) 1.972(3.2) Continued	1.094(1.05)



Table 15 -- F.R. Germany: Demand elasticities for dairy products -- continued

Reference	Reference Information :		Vlacefolew of		••		to the total	Information	
Commodity and	: Time period :		riagerety or	-	•	•	ratiblicat tur	Ot martion	
	Historical Projection	Income	Own-price	Cross-price	:Equa- :	R2 :	In	Coefficient & standard error come : Own-price : Cross-price	rice
Stamer (65)	.: Long-run	.25	+.12		SF	66.	2,415(.2)		
Other milk products:				<u> [</u>]			-		
Hesse (67)		67.	52		SL	98	26.99(1.4)*	17.91(5.7)***	
Hesse (67) 5/	••	.79	50		SL	96		4.275(1.2)**	· •.
Hesse (67) 5/11/.	••	. 79	84	_	ZIS	 	6.968(.2)	4.123(.9)***	at nj
Hesse $(6/)\frac{3}{2}/\dots$ Hesse $(67)\frac{3}{2}/\dots$.: 1954-64	1.35	-1.14	<u> </u>	7 8	18.		2.59(.7)*	
: (69) Hesse	.: 1958-67	п.	43						٠, ٠.
Kost(75)	: 1955-68	п		()	I.I	66.	1.11(.03)	S 723	
OECD(68)	: 1961-63 : 1961-63 : 1975-85	1.21 1.16 1.10		· · · ·	11 SI SI	98.	145.71(6)		a kanala
Stamer(65) <u>2</u> /	.: 1950/51-61/62	1.42	-1.10		SL	.98	4.664(.22)	3.594(1.3)	<i>i.</i>
Condensed milk: Hesse(67) <u>5</u> /	.: 1954-64 : 1954-64	.63		· .	дд.	.93	19/ */ <u>0</u> 2/	1.168(.6)	
Hesse (67) <u>3/5</u> /	: 1954-64 .: 1954-64 : 1954-64 : 1954-64	2.11	-2.34 -3.93	· .		.92 .95 .96	.002(.0005)*	2.415(.1)* 5.527(.98)* 9.266(.3)*	
Kost (75)	: 1955-68	. 54			Inv.	.91	13.45(1.2)	take the take to	
OECD(68)	: 1961-63 : 1975-85	1.16		· · ·	11	.95			Sport collections on
Stamer $(65)2/$.: 1950/51-61/62	747	-3.34		SL	86.	4.165(6.5)	31.337(15)	
Skim milk: FAO(71)	.: 1964-66 1970-80	.20	14.	· ·	TS ,				
Powdered milk: Kost(75)	: : 1955-68	2.40			SL	86.	.29(.01)		
,	•••						Continued	-	

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Table 15 -- F.R. Germany: Demand elasticities for dairy products--continued

and	Reference information :	Elasticity	icity of:	••	Statistical information
source	Historical Projection	Income ; Own-price	ice : Cross-price	Equa- : R2 : tion :	: Coefficient & standard error : Income : Own-price : Gross-price
Cottage and cream cheese: IFO(67)	: : : 1961/62-62/63 1970-75 :	1.30		DF	
Total milk products: FAO(62)	1957-59 1970	. 20	· · ·		- 200 - 804
Hesse (67)	1958–64	.2844	:		T 3 a 5
Krohn(62)	1970	.15	in the la		
** Significant at the 9 *** Significant at the 9 stanfficant at the 9 1/ Income and price ela 2/ Elasticities calcula 3/ Elasticities based o 4/ Elasticities calcula 5/ Elasticities calcula 6/ Excludes milk equiva 7/ Milk and cream. Elasticities derived .001079(.0001) .00105(.00006) .002429(.0005) .002429(.0005) .002325(.0003) Fat equivalent. Average weighted ret 11// Average weighted ret 11// Price index for chee 118/ White cheese001266(.0006)		he 99.9 percent confidence interval, the 99 percent confidence interval, the 95 percent confidence interval. culated for the marketing year. culated for monthly data, culated for monthly data, tuly alent of butter. I ved from price dependent equation, ted. I retail price for cheese. cheese based on average price paid by four-person households	rces		1

No live & Million



Table 16 -- France: Demand elasticities for dairy products

1141 1156 1970-75 19 19 19 19 19 19 19 1	ference	Reference information	: uo		Elasticity o	••	•• •	Stat	Statistical in	information
1956 1970-75 34 to .43	Commodity and :- source ::	Time	Projection:			Cross-price			Coefficie ncome :	ont & standard error
1957-59 1970 .90 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11 .11	Bs: CREDOC(67) <u>1</u> /: CREDOC(67) <u>2</u> /:		1970-75 1970-75		20		SL			
1955-68			1970 1975-85 1970-80	.90 .40 .20		مدام مد مد	11			—2±0 I
1970 75 75 76 77 77 77 77 77	•••••	1955-68		.13	08		DI/I	·	12(.004)	.083(.15)
1961-63 1970-75	: Krohn(62)		1970	.75						ы ne ⁻ ;
1961-63 1975-85 2.26 1.1 .57 41.781(28) 1.1 1956 1970-75 .20 1956-61 1970-75	: WSU(68) <u>3</u> /		1970-75	04.	20					इस ५८
1956 1970-75 .0215 1 SL SL			1975-85	.36	1		111	† !	.781(28)	1 700 97
1961-63 1975-85 .10	15/1		1970-75 1970-75	.02	15	±	SL			NT
Short-run .0116 SL SL Short-run .46 .16 SL SL SL SL SL SL Short-run .46 .53 .16 .16 .16 .16 .16 .16 .17 .20 .17 .18 .18 .20 .18 .20 .18 .20 .18 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 .			1975-85 1970-80	.10			11			-1 v 7c/
1959-61 1980 .20 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Fouquet (70): Fouquet (70) 4/: Fouquet (70) 4/:			.01 .46 .53		· ÷ -	ST ST ST			
1970–75 .40 1975–8515 1970–75 .28 to .33 1970–75 .28 to .33	Gruen (68) <u>5</u> /		1980	.20		=	LI			
1970-75 .40			1970	00.		÷				
1975-8515	•• ••		1970-75	04.						
1956 1970-75 .28 to .33 F40 F. 1952-61 1970-75	•		1975-85	15	: :	1102 132 131	17			
ווחפת	$\frac{1}{2} \frac{1/6}{6} \frac{7}{6}$		1970-75 1970-75	.28 to .33	40	F P Constitution of the Co	. 7S			Continued

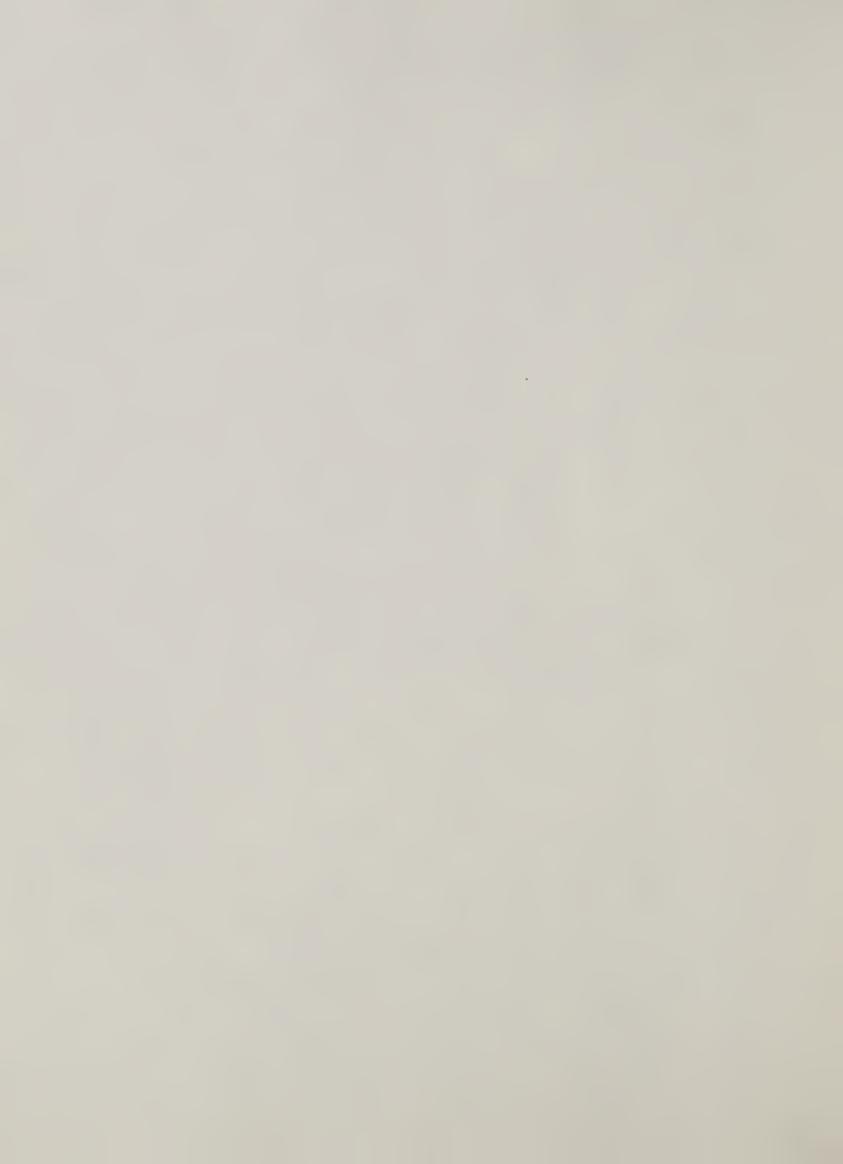


Table 16 --France: Demand elasticities for dairy products--continued

	ird error	:Cross-price	#676		e an			1.18(.7)		· .			- TG e					-		
nformation	Coefficient & standard	Own-price	\$ 0 4	*00T.				1.75(.5)			•					.60(.47)				
Statistical information	Coeffici	Income	700	(06.)66.				20.86(4)			.036(20)					1.09(.3)			12.17(10)	Continued
	R ² :	••	ŗ	χ,				.95			.73					16.			.92	
	Equa-	: tion :	,	70	LI SL	11	1.1	SL			17	SL	17	SL	LI	DI			SL LI	
	Cross-price	oroga price		02 margarine				.43 margarine												
ty of:		-		-				₫ _ *. • ,		- -							<u> </u>	- : ·		•
Elasticity of:	Own-price	Owil-prace		16				-1.77				40				09*-				
	· omcour			. 59	.20	.63	09.	1.02	.35	.35	.50	.38 to .51	.30	.36	.20	1.09	.47	.47	1.14	
	Dro foot for	Historical Frojection		1970	1975-85 1970-80	1975	1980		1970	1970-75	1975	1970-75 1970-75	1970-80	•	1980		1970	1970-75	1975	
Reference information	Time period	istorical		1950-63	1961–63 1964–66		1959-61	1955-68			1961-63	1956 1952-61	1964-66	.: Short-run	19-6561	1955-68			1961-63	
Reference	and	H apinos	••	E1z(67)	FAO (67)	Fouquet (70)	Gruen(68)	Kost(75)	Krohn (62) 1/	MSU(68)	$0ECD(68)\frac{7}{8}/\dots$ $0ECD(68)\frac{8}{8}/\dots$	Cheese: CREDOC(67)1/: CREDOC(67)2/:	FAO(71)	Fouquet $(70)\frac{9}{9}/$	Gruen(68)	Kost (75)	Krohn(62)	MSU(68)	OECD(68)	
1.1			1								90									



Table 16 -- France: Demand elasticities for dairy products--continued

Reference inf	information :		Elasticity of		•• ••	Stat	Statistical in	Information
Commodity and source Hist	Historical Projection	Income	Own-price :	Cross-price	Equa-:	R ² : I	Coefficie Income :	Coefficient & standard error come : Own-price :Corss-price
Other milk : products: Powdered milk:			. (
	1955-68	2.46	+1.38		DL/L	86.	(60-)77	-291-
d m11k: : (70)10/ :Sh (70)10/ :Lo		1.20			TS ST			RO 1007
	. 1955–68	1.15	62		IO	.99 1.	1.15(.1)	.62(.20)
Cream: : Fouquet(70):Sho	: :Short-run & long-run	. 65	39		SL	:	*	
; Kost (75) 19	1955-68	4.91			LI	.73 10	10.38(2)	
Total milk : products: : FAO(62): 1	1957-59 1970	.40	·	·• •• •• ·•				
Krohn(62)	1970	.25		·				177
Mot significant at the 80 perce 1/ Cross-section analysis of non-f 2/ "Apriori" elasticity estimates. 3/ Income and price elasticities a 4/ Excludes milk equivalent of but 5/ Milk and cream. 6/ Butter and cream. 7/ Fat equivalent. 8/ Consumption assumed to remain c 9/ Cheese and yogurt.	80 percent of non-farm itimates. cities are it of butter remain cons	confidence level. households. derived from diff	1. ferent sources					

23 23

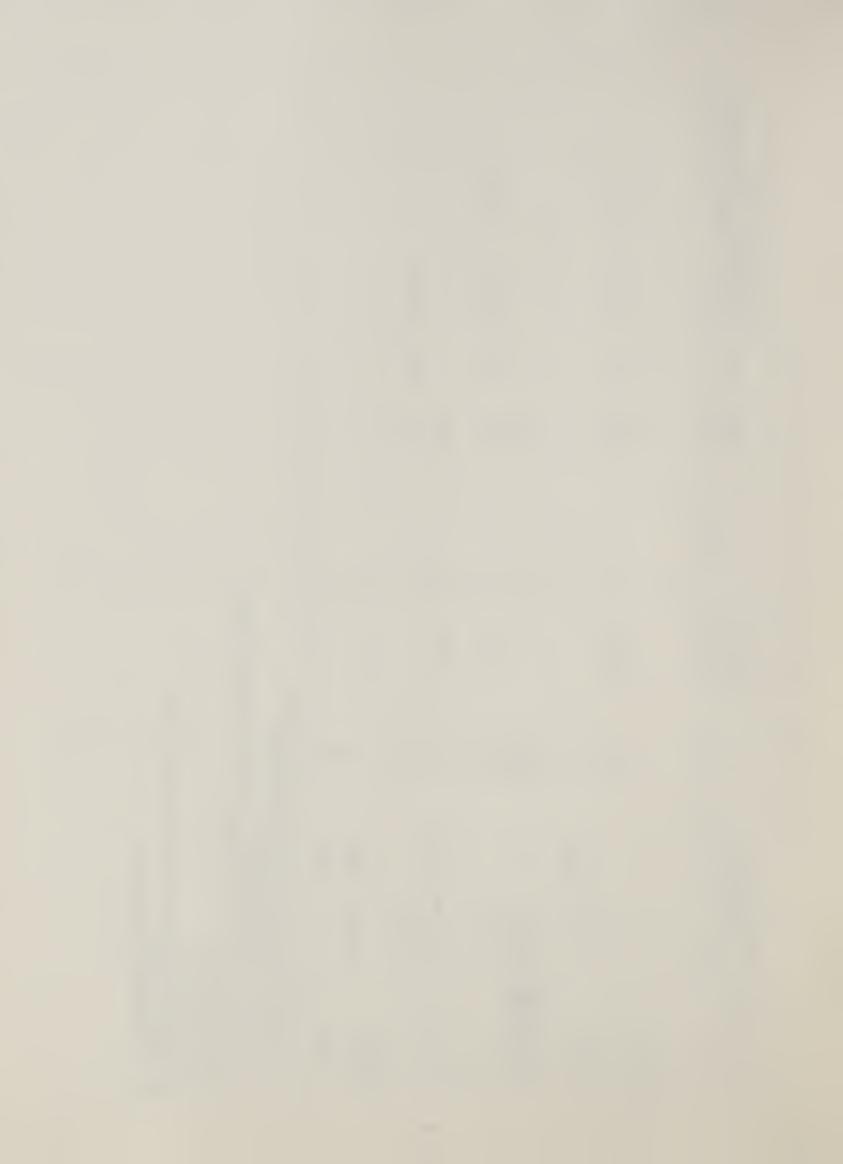


Table 17 -- Ireland: Demand elasticities for dairy products

Reference	Reference information Time period	rtod		Elasticity of:				Em	lon	
Commodity and '-source 'll		Projection	Income	. Own-price :	Cross-price	:Equa- : tion :	R ²	Coefficient & si Income : Own-pi	standard error price :Cross-p	own-price : Gross-price
Eggs: FAO (62) FAO (67) FAO (71) FAO (71) FAO (71) FAO (71) FAO (71)	1957–59 1961–63 1964–66	1970 1975-85 1970-80	. 40			11				
(17) USM	1955-68	1980	51	60°	- F)6. 	.07(.01) .09(.14)	14) - % (-)	r to G
OECD (68)	1961-63	1975-85	49			11	.93	55.9(5)		
M11k, whole: FAO (67)1/ FAO (71)	1961-63 1964-66	1975-85 1970-80	.10			11			e 75-17.	
Gruen (68) <u>2</u> /	1929-61	1980	0.00		<u> </u>	1.1				
(71) WSU	1955-68	1980	.10		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17	18.	(60.)70.	2014	
OECD (68) <u>2</u> /	1961-63	1975-85	.36			17	.82	41.7(6)		-;
Butter: FAO(67): FAO (71):	1961–63 1964–66	1975-85 1970-80	.00			SL			. E	
Gruen (68):	1959-61	1980	10			LI			•	
MSU (71)	1955-68	1980	. 56	00.	.03 margarine	1.1	•36	.08(.02) .00(.01)		.03(.01)
OECD (68) 3/:	: 1961–63	1975-85	38		مد مد مد	11	79.	43.5(11)		
Cheese: FAO (71)	1964-66	1970-80	.50	·		SL			r ann samat ma	
Gruen (68)	: 1959-61	1980	00.			ΓΙ				•
MSU (71)	: 1955-68	1980	1, 67.	1001	The state of the s	SL	76.	1.65(1.1) .03(.02)	.02)	
OECD (68)	: : 1961–63 :	1975-85	2.11		TO THE STATE MELLIN TO THE	SL	.93	3.2(.3)		
			53 Cr		8.1911 3 3 3 3 3			ď	continued-	!



Table 17 -- Ireland: Demand elasticities for dairy products--continued

: Statistical information	:Equa- : R2 : Coefficient & standard error : tion : Income : Own-price :Cross-price	73		
Elasticity of:	Income : Own-price : Cross-price	.50		
Reference information :	source 'Historical' Projection'	Other milk : products: Skim milk : 1964-66 1970-80	1/ Excludes milk equivalent of butter. 2/ Milk and cream 3/ Fat equivalent.	

26%

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Table 18 -- Italy: Demand elasticities for dairy products--continued

Reference	Reference information	: uc		Elasticity of	ıf:	•• •	01	Statistical 1	Information
Commodity and	Time period	period				Equa-	: Za	Coefficient	ent & standard error
	Historical	Historical Projection	Income	Own-price	Cross-price	: tion :	-	Income	Own-price : Cross-price
									<u>.</u>
Eggs:			3		-	15	16	7,099(,8)	
Cao-Pinna (62) 1/:	1955-57		.51			: Si	96.	4.146(.3)	
(20)-1 Tillia (02)-1		1965	. 56		-				
	: 1955-57	1970	. 54						
FAO(62)	1957-59	1970	06.		,				
FAO(65)		1975-85	09.			SL			
	99-4961 :	1970-80	. 50			SI			
Kost (75)	: 1955-68		.19		نب بند	Inv.	.78	622.76(93)	
		•							
Krohn(62)	••	1970	99.						
MSU (68) 3/	• ••	1970-75	09.	40	·				·
OECD(68)	: : 1961–63 :	1975-85	94.	1		iii III	.96	57.3(4)	
Milk, whole:	••••								
Cao-Pinna (62) 1/	1955-57		.39			ST ST	83 83	49.17(8) 3.802(.6)	
Cao-Finna $(62)\frac{2}{4}$		1965	66.		÷				-
Cao-Pinna(62)4/		1970	88.		•				
Cao-Pinna $(62)\frac{5}{5}$: Cao-Pinna $(62)\frac{5}{5}$:	': 1955-57 ': 1955-57	1965 1970	.42						-
FAO(67)6/	: 1961-63	1975-85	.30			SL			. ••
FA0(71)	••	1970-80	.30		 .	Sľ			
Gruen(68) <u>7</u> /	1959-61	1980	09.		<u>.</u>	LI			
Kost (75)	.: 1955-68		.26	21		DF	.84	.26(.08)	.00094(.0007)
Krohn(62) <u>8</u> /		1970	.50		، مع مد				
MSU(68)		1970-75	.50					,	
OECD(68)	.: 1961–63	1975-85	.27	- -		13.13	18	35.7(6)	
			رد.	House	in the contract of the contrac				Continued

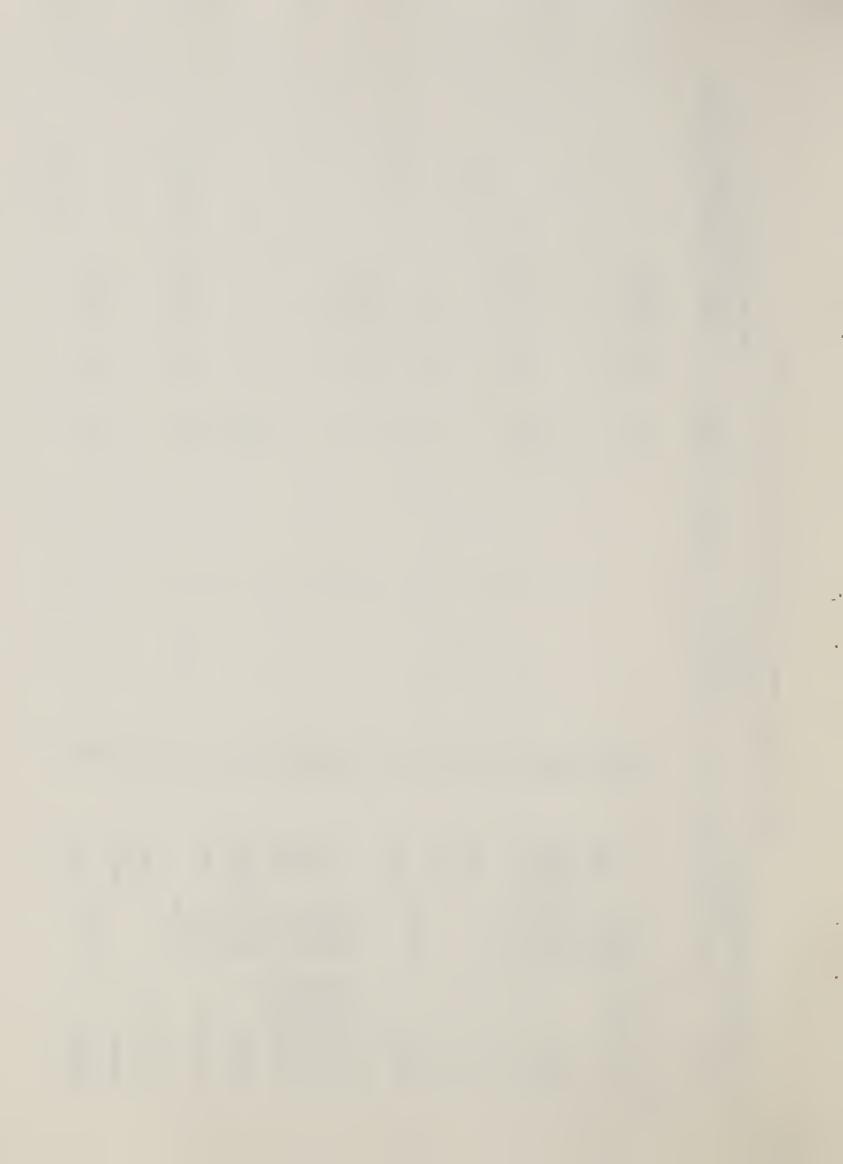


Table 18 -- Italy: Demand elasticities for dairy products--continued

Reference	info	rmation :		. Elasticity of:	of:			Statistical inf	information	
Commodity and source	Historical	Historical Projection	Income	Own-price	Cross-price	:Equa- : R	R ² :	Coefficien Income :	Coefficient & standard e	rd error: Cross-price
Butter: Cao-Pinna(62) <u>1/</u> Cao-Pinna(62) <u>2</u> /	1955-57 1955-57 1955-57	1965	1.06 1.08 .53			7S 7S		.93	6.744(.6)	•
E1z(67)	: 1955-57 : 1950-63	1970	. 20	41		DI.	.62	1985(.22)#	.4088(.29)	· 7,7
FAO(67)	: : 1961-63 : 1964-66	1975-85 1970-80	.50			SL			•	- ;-:
Gruen(68)	: 1959-61	1980	06.			1.1			**	*. * *
Kost(75)	: 1955-68		ļ	36		SI	.24	1.07(.6)		- :
$(62)\frac{9}{2}$		1970	.11	;	:	:	٠	1	-	
MSU(68)	•• ••	1970-75	09.							
$0ECD(68)\frac{9}{9}/$: : 1961–63 :	1975-85	.40			ri ri	.61	49.9(12)		to the grade
Cheese: Cao-Pinna(62) <u>1/</u> : Cao-Pinna(62) <u>7</u> /: Cao-Pinna(62) <u>10</u> / Cao-Pinna(62) <u>10</u> /	: : 1955-57 : 1955-57 !/ 1955-57 !/ 1955-57	1965 1970	.49 .62 .57 .55		- -	SI SI	.97	8.841(.5)		
FA0 (71)	1964-66	1970-80	. 50			SL				• ••
Gruen(68)	1959-61	1980	.50		·	17				
Kost (75)	.: 1955-68		.29		·· - ·-	ü	.58	.0061(.002)		- ng ngn
Krohn(62)	•• ••	1970	.51		 .					
MSU(68)	•• ••	1970-75	.50		 -	,				
OECD(68)	: 1961-63	1975-85	50 150		With the second	 	.55	61(17)		
	• ••		3 N		***************************************				continued	

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Table 18 -- Italy: Demand elasticities for dairy products--continued

mation	Coefficient & standard error come : Own-price :Cross-price			. 6		***.					
· Statistical information	: Coefficient : Income : Ow		.48 .00011(.00003)				.20(.03)				
	R ² .		.48				.78				
	:Equa-:		'n		SL		SL				
	Cross-price										
ticity of:			·.		" - :	-		•			
Elasticity	Own-price										
	Income		.20		.30		.40		09.	.47	
n in in	Historical Projection				1970-80				1970	1970	
Reference information	Historical		1955-68		1964-66 1970-80		1955-68		1957-59		
Reference	Commodity and source	Other milk :	products: Powdered milk: : Kost (75)		Skim milk: : : FAO (71)		Condensed milk: : Kost(75)	Total milk	products: FAO(62)	Krohn(62)	

Not significant at the 80 percent confidence level.

Consumption measured as expenditures. Consumption measured in quantities.

Price and income elasticities derived from different sources.

Cow's milk - fresh and condensed.

Excludes milk equivalent of butter. Sheep and goat's milk.

Fresh, powdered and condensed milk in milk equivalent. Milk and cream.

Fat equivalent.

Cheese and other dairy products except milk and butter.



Table 19 -- Netherlands: Demand elasticities for dairy products

Reference	information	: u		Election to		••	ů	Stationical information	
Commodity and	Time period	eriod:		- 1					
	Historical.	Historical Projection:	Income	Own-price :	Cross-price	:Equa- : tion :	R ² :	Coefficient & star Income : Own-pri	own-price :Cross-price
••									
::	1957–59	1970 1975-85 1970-80	.70 .50 .05		i -	13 13			
;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;		1970			<i>i</i>				
		35 0505		C	·				¿
$MSU(68)\underline{1}/\dots$		1970-72	0¢.	05					
OECD(68)	1961-63	1975-85	.52			11	. 52	61.95(18)	2017 1 :
Milk, whole: FAO(67)2/ FAO(71)	1961-63	1975-85 1970-80	.10		· 	11			
Gruen(68) <u>3</u> /	1959-61	1980	.10			111			**
MSU (68)		1970-75	.10		•				71.7
OECD(68)3/	1961–63	1975-85	20			DL	.63	.202(.05)	· ^ å
Butter: : : : : : : : : : : : : : : : : : :	1950-63		87.	-1.20	i 82 margarine	DL	.93	.48(.28)# 1.20(.3)*	.82(.57)**
FAO(67)	1961-63	1975-85 1970-80	. 40		· 	SL			
Gruen(68)	1959-61	1980	1.10			LI			
Krohn(62) <u>4</u> /		1970	. 89						
MSU(68)		1970-75	04.						
OECD(68)4/	1961-63		11.			. III	11.	91.9(61)	
Cheese: :	: 1964-66	1970-80	.20	N - N - N - N - N - N - N - N - N - N -		·SL			
: (89) cruen	1950-61	6		1					



Table 19 --Netherlands: Demand elssticities for dairy products--continued

L	source	Historical Protection					: Equa- :	. 7.9	Coefficient & standard error	
L		:	Frojection	Income	Own-price :	Cross-price		×	Income : Own-price : Cross	rd error: Cross-price
	Krohn(62)		1970	.45		· · ·				
	MSU(68)	••	1970-75	.45						
ionur»	OECD(68)	: : 1961–63 :	1975-85	.53			11	.36	17.73(2)	- 403
•	Other milk products: Skim milk: FAO(71)	: : : : : 1964-66	1970-80	20		·. ·	1.1		\c'.3A	T : 123
0 0	$0ECD(68) \frac{5}{5} / \dots$ $0ECD(61) \frac{5}{2} / \dots$: 1961–63 :	1975-85	-1.59			LI DL	.80	189.8(28)	77.73
. 96	Cream: OECD(68)6/: OECD(68)6/:	1961–63	1975-85	1.05	;	,	SL	888	1.681(.2)	
300	Condensed milk: 0ECD(68)	1961-63	1975-85	1.95		·	SI.	.84	17.73(2)	+ II
	Whole milk powder: OECD(68)	: : 1961–63 :	1975-85	1.90 1.20			st LI	.95	2.142(.2)	
SERVE EL	Total milk products: FAO(62)	1957-59	1970	. 80						
, 1	Krohn(62)		1970	.50		J.,				

^{2/} Exclude milk equivalent of butter.
3/ Milk and cream.
4/ Fat equivalent.
5/ Skim and butter milk.
6/ Measured in product weight.



Table 20 -- United Kingdom: Demand elasticities for dairy products

Commoditive and	Time	lime period :								
	Historical Projection	Projection	Income	Own-price	. Cross-price	:Equa- : : tion :	R ² :	Coefficient Income : Or	& standa un-price	rd error :Cross-price
E888: FAO(62) FAO(67) FAO(71) FAO(71)	: 1957–59 : 1961–63 : 1964–66	1970 1975-85 1970-80 1980	.30 .30 .00	14		11				
MSU(71)	1955-68		. 16	16	-1.19 bacon/ham	. 171		(11)61.	.16(.08)	4 (40.) e1.
OECD(68)	1961-63		99.		<u>:</u>	rı .	<u>27.</u>	73.3(14)		
Oxford(62) Oxford(62) Oxford(69)	1955-59 11959-63	1965 1965-75 1970-80	.45	- 30					NOLL BITS SE	7.25935 7.0257538
Sturgess (72)	1969/70	1977/78	.15	25	,06 non-livestock ,04 non-foods	k food			. White acts	Magazia y - Alberghellenga response
U.K. (73) U.K. (73) U.K. (75)	1955 1958 1960 1962 1965 1967 1971 1971	i î î 1	.34 .33 .23 .21 .18 .12 .05	: ! ! ! !		DE D	100011	.12(.03) .05(.03) .09(.03) .14(.04)		TANT L S ON SIA SEAS TANT L BU N BUSY SUAS 1
U.K. (65) U.K. (71) U.K. (76)	1956–63 11964–69 11969–74			14 13 07		ने ने ने			.14(.04) .13(.08) .07(.05)	
M1k, whole: FAO(67) FAO(71) FAO/CCP-6(71) .	: : 1961–63 : 1964–66	1975-85 1970-80 1980	.20	13		1.1				
Gruen(68) <u>1</u> /	.: 1959-61	1980	10		-	, 17	•			
Oxford(62) Oxford(69)	.: 1955-59 .: 1959-63	1965	.20 ^{0.1} .29	20% REDUCTION	TYPE WITHIN THIS LINE FOR					



Table 20 --United Kingdom: Demand elasticities for dairy products--continued

Reference	Info	Time perfod :		Elasticity of		•• ••	3 4	Statistical in	information	
Commodity and source	Historical Projection	Projection	Income	Own-price :	Cross-price	:Equa- : tion :	R ² :	Coefficie Income :	Coefficient & standard error come : Own-price :Cross-p	rd error :Crosa-price
	** 10 10 10									
U.K. (71)	1955		.28	.,					£ (<u></u>
•	: 1958 : 1960 : 1962		. 24) [-	
	1965		. 26			DE		.21(.02)	NO	
(6)	1969		. 20			1 12 2			1303	iona
U.K. (75) U.K. (75) U.K. (76)	1973 1973 1974		.00			4 4 4		.07(.01)	32 401	34 845°
U.K. (65): U.K. (76):	: 1956-63 : 1969-74	į	1	13		70	; ; ;	; ; ;	.13(.16)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Butter: : : FAO(67):		1975-85	.10			17			SHLN	· ,
FAO (71) FAO / CCP-6 (71) .:	: 1964-66	1970-80 1980	.27	33	.06 margarine				Sec. 7 :	
Gruen(68)	: 1959-61	. 1980	.20			1.1			* 35 % •	
MSU(71)	: : 1955-68 :		09.	38	7.21 margarine 7.49 bread	LLI	.95	.71(n.a.)	.38(n.a.)	.21(n.a.) .49(.09)
) 0ECD(68) <u>2</u> /:	: 1961-63		92.			171	.35	.85.2(34)		
0xford(62)	: 1955-59	1965	04.							
Oxford(62) $0xford(69)3/$: 1959-63	1965-75	.37	09:-	and the same					
Sturgess(72)	: 1969/70	1977/78	.30		.08 non-livestock +07 non-foods	foods				
	••		19%			,				
			211 0	foods o do of the foods	and the remains to	•		·		
			3							

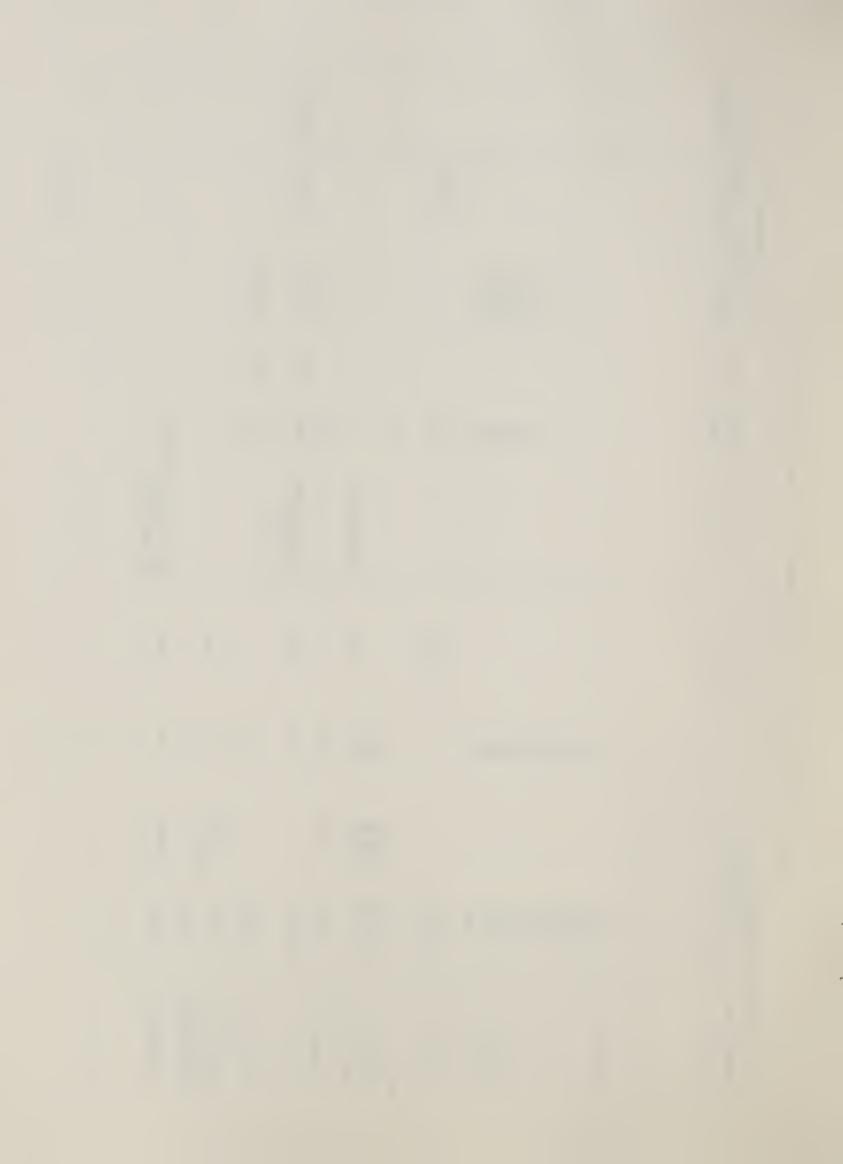


Table 20 -- United Kingdom: Demand elasticities for dairy products--continued

1 1	Reference	Reference information	lon		Elasticity	of:	•• ••		Statistical information	formation	
	Commodity and source	ilme Historical	Historical Projection	Income	Own-price	Cross-price	Equa-	R ²	Coefficient Income : Ox	Own-price :Cross-price	Cross-pric
	U.K. (73)	1955 1958 1960 1962 1967 1969 1973 1973	•	.37 .30 .24 .27 .17 .10 .18		" 	DI D		.14(.02) .10(.03) .18(.03) .23(.04)		· · · <u> </u>
	U.K. (65); U.K. (76); U.K. (76);	1956-63 1969-74 1967-74			33 0 42	26 margarine	7 0 0 0	.37		.33(.06) .40(.07) .42(.06)	.26(.04)
	Cheese: : : FAO(71) FAO/CCP-6(71) .:	1964-66	1970-80 1980	.20		·	SL	!	1		
	Gruen (68);	1959-61	1980	.10	٠	· · · ·	1.1				
-	MSU(71)	1955-68		.39	12		DI	.89	.39(.06)	.12(.08)	
	0ECD(68)	1961-63	1975-85	. 20			LI SL	.51	62.5(18)		
	0xford(62); 0xford(62); 0xford(69);	1955-59	1965 1965-75	.28	16	·					
	Sturgess (72)	1965/70	1977/78	.30	- 40	,03 non-livestock foods					
	U.K.(71)4/		1955 1958 1960 1962	.11 .21 .25 .25							
			1962 1967 1969	27	Book and the state of the state		걸겁		.22(.04)		
-				. .	· · · · · · · · · · · · · · · · · · ·	· -				Continued	

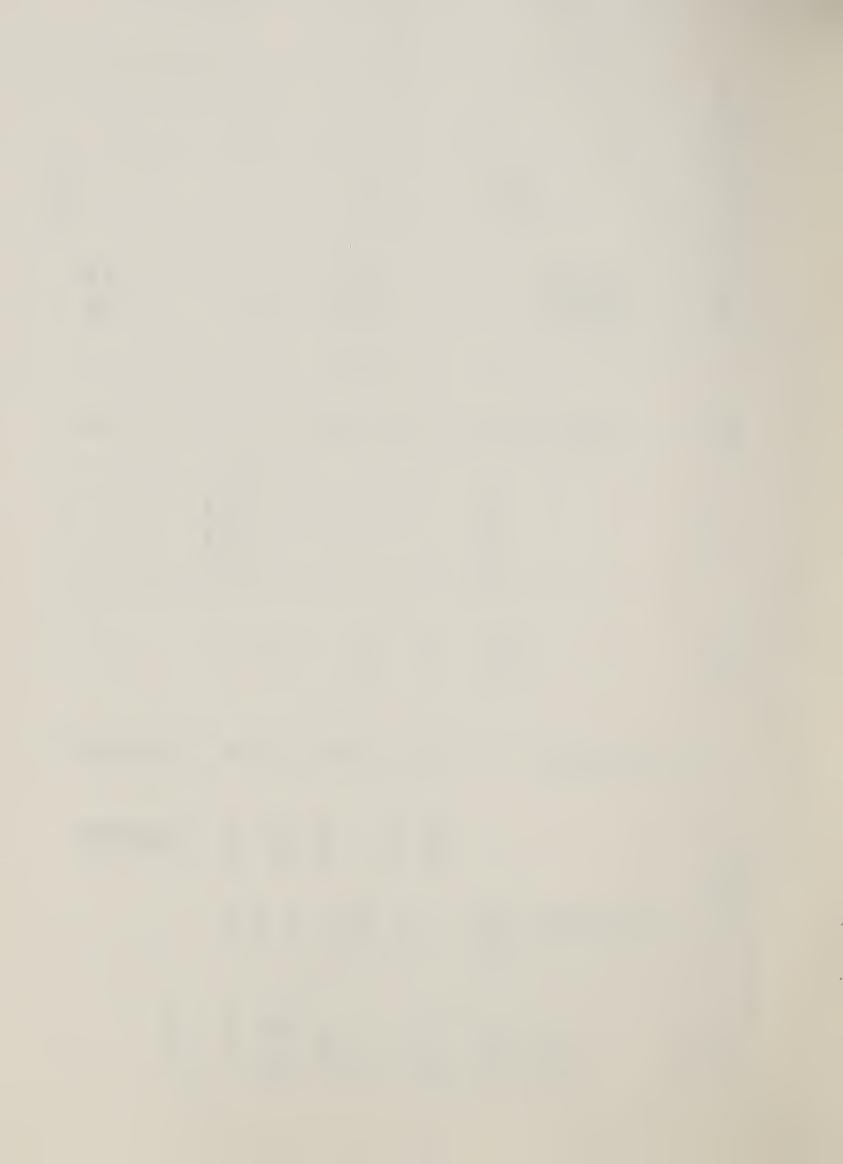
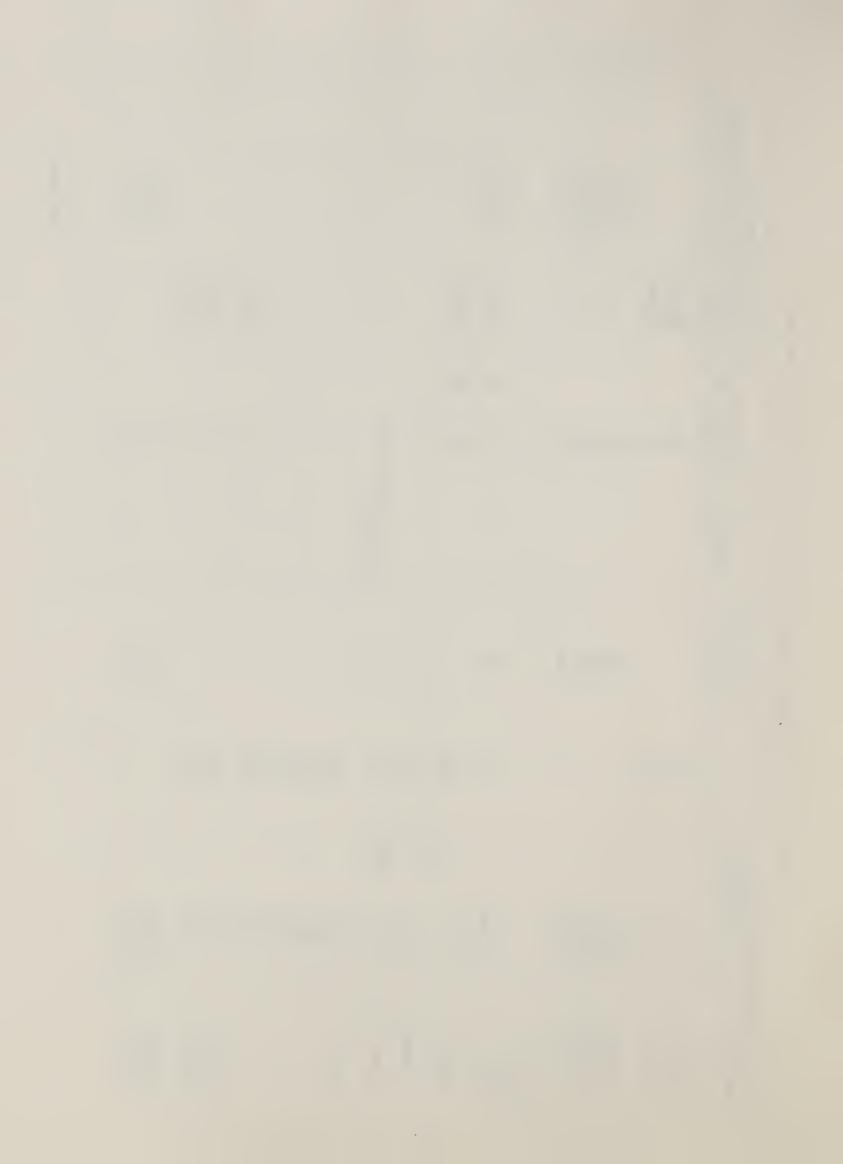


Table 20 --United Kingdom: Demand elasticities for diary products--continued

Reference	e information Time period	n :		Elasticity	of:			Statistical in	information
Commodity and source	Historical Projection	rojection	Income	; Own-price	. Cross-price	:Equa- : : tion :	R ² :	Coefficient & Income : Own-	Own-price : Cross-price
U.K. (73) U.K. (75) U.K. (76)	1971 1973 1974		. 24 . 30 . 36			or or		. 24(.05) .30(.04) .36(.05)	
$0.K. (65) \frac{5}{5} / \dots : 0.K. (69) \frac{5}{5} / \dots : 0.K. (69) \frac{6}{5} / \dots : 0.K. (71) \frac{6}{5} / \dots : 0.K. (76) \frac{6}{5} / \dots : 0.K.$	1956-63 1958-66 1962-67 1964-69 1969-74			22 32 84 -1.59		01 01 01 01			.22(.66) .32(.10) .84(.52) :
Other milk : products: : Cream: MSU(71):	1955-68		07.	. 30	· ·	SL	.74	.89(.15)	.38(n.a.)
OECD(68)	1961-63	1975-85	3.84		;	75 75.	86.	2.46(.2)	
0xford(69)	1959-63		2.00						N.T €
Sturgess(72)	1969/70	1977/78	. 80	06	10 non-livestock	ck foods			
U.K. (71)	1955 1958 1960 1962 1965 1967		1.35 .99 1.38 1.22 .84 .80			DIC		.80(.12)	-^-
U.K. (73); U.K. (75); U.K. (76);	1971 1973 1974		.84 .67 .75		_4_4	D[D[.84(.08) .67(.08) .75(.18)	
U.K. (65) U.K. (69) U.K. (76)	1956-63 1962-67 1969-74			1 1 1 65		0 11 10		•	.65(.35) .68(.31) .23(.41)

Continued

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20 -- United Kingdom: Demand elasticities for dairy products--continued Table

Commodity and source Historical Projection: Powdered milk: 1959-63 U.K. (71) 7/ 1958 1960 1962 U.K. (73) 7/ 1965 U.K. (73) 7/ 1971 U.K. (75) 7/ 1973 U.K. (75) 7/ 1974	ction Income	5100440441		••	Cross to formation	0
2/ 2/ 2/	į				Dratt	1011
		ne : Own-price :	Cross-price	:Equa- : tion :	R : Coefficient & standard error : Income : Own-price : Cross-p	itandard error orice :Cross-price
	25	Ş				- may -
· · · · · · · · · · · · · · · · · · ·	23					
·· ·· · · · · · · · · · · · · · · · ·	49	6.		,		
·· ·· · · · · · · · · · · · · · · · ·	45	54				—à.
	92	7.0			•	3 C 3 C-
• • • •	98			DI	.86(.26)	
: : :	-1.09	60		no.	1.09(.29)	
• •	-1.52	52		DI		New York
	-1.18 -1.50	8 0		12 13	1.18(.33) 1.50(.32)	
:	7E -	71		DI.	37 (32)	
	12			7 7	.12(.30)	: Ta
Condensed milk:						5
xford(69)9/ 1959-63	15		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	!		
0xford(69)10/.: 1959-63	.17	17				,
xford(69)11/.: 1959-63	Ψ.	. 85				and.
: 	87	80				1 1000
	-,76	. 92				
: 1960	26	9,				
: 1962	- 10	0	-			
1965	-1.54	7.				
: 1967	16	91		DL	.16(.14)	
••	25	25		DI		
:	70	77		id i		
U.K. (76) 13/ 19/3 U.K. (76) 13/ 1974	. 0.	50.		급급	.05(.15)	
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		-2.33		DL	2.33((.55)
•••		61		DI	.)19.	
Other:						
1)14/: 1964-66	1970-60	.20		SL		
0xford(62)15/.: 1955-59 1	1963 .52	52	north the territory to			
		20	,			



Table 20 ---United Kingdom: Demand elasticities for dairy products--continued

Reference information :	Elasticity o	of:		Statistical information
Source Historical Projection	Income Own-price	Cross-price	:Equa- : R ² : tion :	: Coefficient & standard error : Income : Own-price : Cross-price
Total milk : products: : 1957-59 1970	60°			
0xford(69): 1959-63	.78	· 		
	d 1965; total condensed - 1	1967, and 1969.		0 (NOW 25 TO B VO. 10 2
Skim milk. Weighted average of high-income effect on consumption of cream, condensed milk. Yogurt and colored and flavored milks.	on consumption of cream,	1ce-cream and chocolate,	and	low-income effect on powdered and
	,			
		. : 		
		· ·		
	3000 - 10%	A service described in		
		A constrain and around the		
		1. Carlo a are Same		



Table 21 -- Japan: Demand elasticities for dairy products

Reference	Info	rmation :		Elasticity	of:	•• ••		Statistical inf	Information
and	Historical	Historical Projection	Income	Own-price	. Cross-price	Equa-	R ² :	In	Coefficient & standard error come : Own-price
					- ·				
gs: Filippello(70).	: : : :		.20	90	.32 fish .36 wheat13 rice				
F111ppello(70).:	** ** **	1980	.27	03	.21 fish .03 wheat .07 rice				
	: 1957-59 : 1961-63 : 1964-66	1970 1975-85 1970-80	1.00			SL LI			Ton specifi
Japan(74) <u>1</u> /	: 1963 : 1965 : 1967		. 55 . 48			DL DL	.97	.552(.001)	. 40, 80a
	: 1969 : 1970 : 1972 : 1973	: : : : :	34 . .30 .23	1			.57	/1679(.002)	
Japan(74) <u>1</u> /	: 1955–64 : 1964–73 : 1955–73		1.42 45 1.34	66 92 <u>3</u> /003	 	. DI	99.	1.42(.2) .454(.29) 1.34(.5)	.655(.27) .919(.30) .003(.54)
•	: 1957–64 : 1961–63 :	1975-85	1.70 1.70 .80		-	DI.	66.	1.78(.2)	
Hilk, whole: Filippello(67): Filippello(67): Filippello(70): Filippello(70):	: F111ppello(67).:4/1953/54-64/65 F111ppello(67).:5/1953/54-64/65 F111ppello(70).: 1965 F111ppello(70).: 1965	64/65 64/65 1980	1.36 1.70 1.15 1.45	91 27 55					
	: 1957–59 : 1961–63 : 1964–66	1970 1975-85 1970-80	2.00 .80 .50		16 (10 or 10	7S -			
Gruen (68) <u>1</u> /	1050-61	0	 ((-				



Table 21 -- Japan: Demand elasticities for dairy products--continued

Reference	Info	u.		Elasticity of		••	7	Statistical information
Commodity and source	Historical Projection	Projection	Income	Own-price	Cross-price	Equa- : tion :	R ² :	Coefficient & standard error Income : Own-price :Cross-price
IAER(64)	: : 1951-60	1965–75	2.10	-1.16		JG	96.	
			1.32 1.28 1.08 .71 .76		,	10 10 10 10 10 10 10 10 10 10 10 10 10 1	.93	1.276(.004)
Japan (74) <u>2</u> /	: 1973 : 1955-64 : 19 4-73 : 1955-73		2.12 .27 1.51	-1.16 -2.01 <u>3</u> /31	<u>.</u>	70 70 70 70 70 70 70 70 70 70 70 70 70 7	96.08	2.12(.1) 1.16(.6) .274(.14) 2.01(.7) 1.51(.1) .305(1.45)
OECD(68) 8/ OECD(68) 9/ OECD(68) 8/ OECD(68) 9/	: 1955-64 : 1955-64 : 1961-63 : 1961-63	1975-85	1.62 1.60 1.38 1.44	; ; ; ;		21 II	66	187.6(6)
Butter: FAO(71)11/	: : 1964-66 : 1959-61	1970-80	1.20			SL		THE WIDEAL
		1965-75 1965-75	.82	-1.37 88 -1	.97(bread/rice) <u>12</u> /	70 70	93	
Japan(74) <u>1</u> /	.: 1963 : 1965 : 1967 : 1969 : 1972 : 1973		2.76 2.64 1.98 1.97 1.95 1.71	•	· .	70 DI DI DI DI	.97	2.639(.005)
Japan (74) <u>2</u> /	: 1955-64 : 1964-73		.77	-2.03		10 01		



Table 21 -- Japan: Demand elasticities for dairy products -- continued

Keteren	Reference information: Time pe	Time period :		Elasticity of;		••••		Statistical information	ormation
source :	Historical Projection	Projection	Income	. Own-price ;	Cross-price	:Equa-	R ²	: Coefficient Income : Ox	out & standard error
0ECD(68)	1955-64 1961-63	1975-85	1.65 1.40 1.85			13	.93	0	
Cheese:	1964-66	1970-80	1.00	, +		SL			593 591
Gruen(68)	1929-61	1980	3.30			SL			****
IRAE(64)	1951-60	1965-75	3.34	-1.11		DL	76.		NSTE:
Japan (74) <u>1</u> /	1963 1965 1967 1969 1970		2.82 2.69 1.48 1.18 1.37 1.31				. 91	2.694(.009)	10028 200 BO. 100
Japan(74) <u>2</u> /	1964-73		-1.49	-3.43]]			
OECD(68)	1955-64	1975-85	2.89 2.23 2.30			TG TS TS	.95	.02(.00)	** / TG
Other milk products: Powdered milk: IAER(64)	1951-60	1965-75	1.29	-3.27		DL	. 86		
Japan (74)	1965		25			DI	.02	.246(.02)	
Japan(71) <u>2/13</u> /	1955-62 1963-70 1955-70		1.13 2.03 1.51	-2.21 18 83		70 DI	. 96 . 96	1.132(.8) 2.032(1.1) 1.506(.7)	2.209(1.1) .177(1.53) .834(.90)
OECD(68)	1955-64	1975-85	$\frac{14/2.23}{1.80}$		•	DL L1	96.	, 2.23(.2)	
Condensed milk: :IAER(64)	1951-60	1965-75	1.08	-1.34	the water teachers to	DF	.73		***************************************
					THE WEST OF SHE				Continued

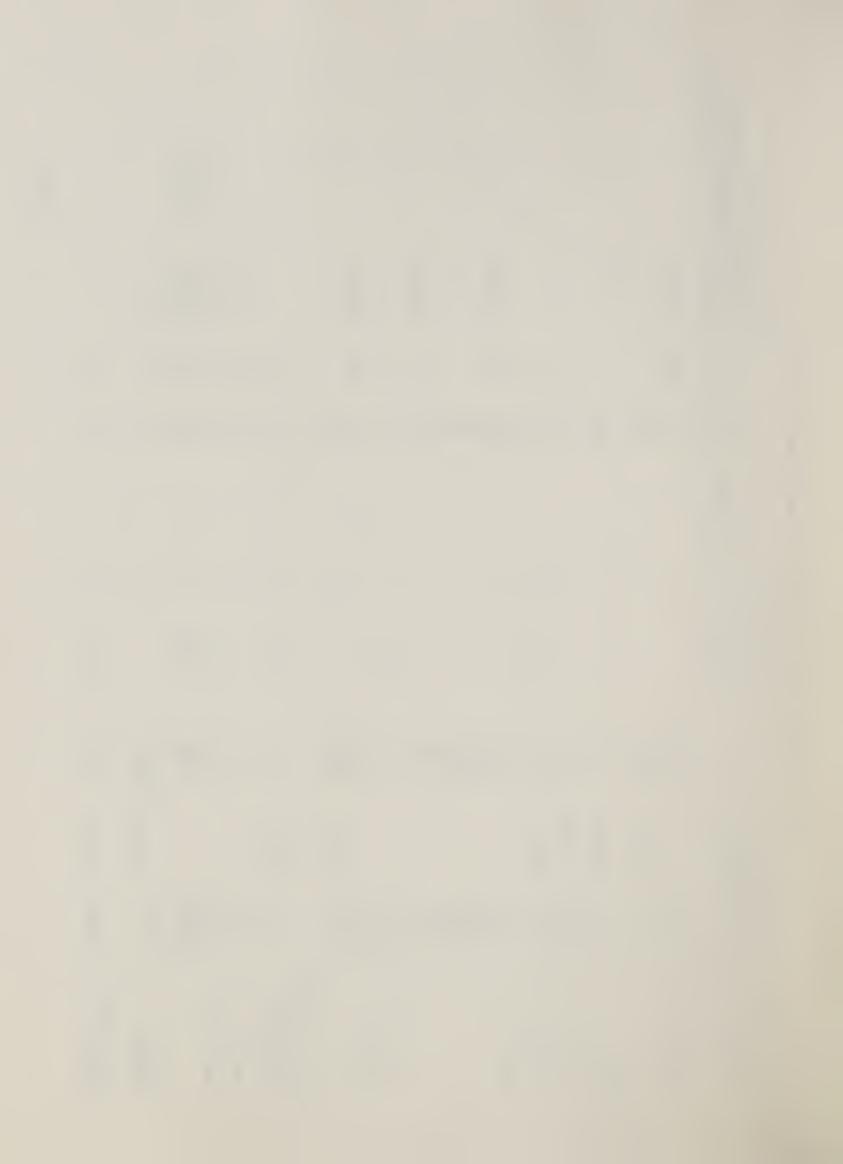
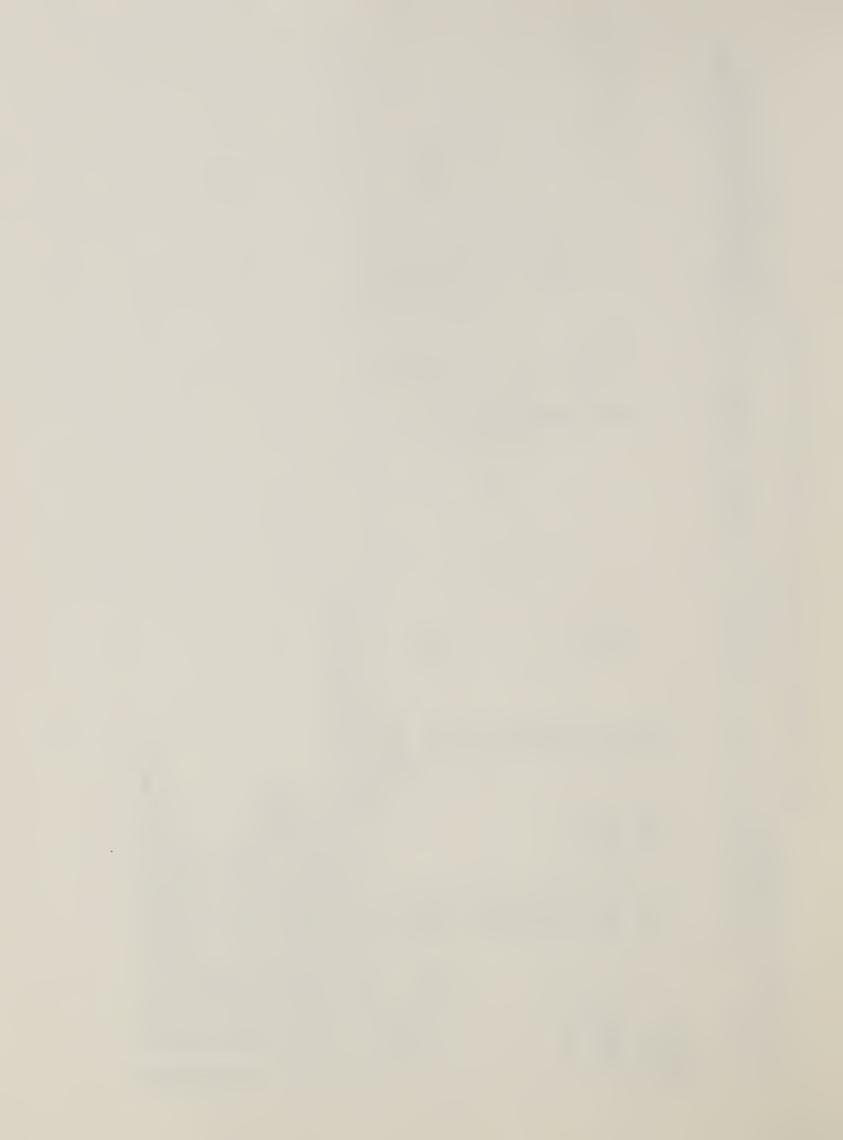


Table 21 -- Japan: Demand elasticities for dairy products -- continued

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নি বৃহ ১ চু ১৯ ছেবে বাম্বর বি । ভাব ১ জ হাজ হাজ ১ বাছ । ৮ চু ভাস ২০০১ চ তার মারু বিছ আবাছার বাহর হ । । । বাহু বি । বাহু বাহর হাজ ১১ বি

tion	t & standard error		% & T & G !		.552(1.04) 1.927(.69)		
Statistical information	Coefficient & Income : Own-			.937(.002)	1,27(.6) .552(1 .06(.41) 1.927(1.63(.01) 1.39(.03)	•
S	qua- : R2 :		76.		96.	76.	
••	Cross-price : Equa-	SL	DL.		DL	DL DL	
Elasticity of:	Own-price		-1.74	· · · · · · · · · · · · · · · · · · ·	55		ds.
•••	Income	2.00	1.58	. 97 . 94 . 49 . 52 . 36	1.27	$\frac{14}{14}/1.63$	Cross-section elasticity for all non-farm households. For non-farm households in cities larger than 50,000 Student t-value less than 1.0. Ordinary least-squares regression. Three-stage, least-squares regression. Excludes milk equivalent of butter. Milk and cream for human consumption. Includes school lunch program. Excludes school lunch program. Excludes skim milk equivalent. Price ratio of bread to rice. Consumption measured as expenditure. Same elasticity for 1961-63. Consumption measured as per capita quantity.
ntion	Time period Historical Projection	9 1970 3 1975-85) 1965–75) 1965–75				Cross-section elasticity for all non-farm ho For non-farm households in cities larger tha Student t-value less than 1.0. Ordinary least-squares regression. Three-stage, least-squares regression. Excludes milk equivalent of butter. Milk and cream for human consumption. Includes school lunch program. Excludes school lunch program. Excludes school lunch program. Ordinary of bread to rice. Consumption measured as expenditure. Same elasticity for 1961-63.
Reference information		1957–59 1961–63	: 1951-60 : 1951-60	(/.: 1963 : 1965 : 1967 : 1970 : 1972 : 1973	; 1958-70 ;/.: 1963-70	: 1957–64 : 1957–64	
Refer	Commodity and source	Total milk products: FAO(62)	IAER(64)13/ . IAER(64)15/ .	Japan (74) <u>1/13</u> /.	Japan $(71) \frac{2/13}{13}$ Japan $(71) \frac{2/13}{2}$	$0ECD(68)\frac{8}{9}/$	1/ Cross-section 2/ For non-farm b 3/ Student t-valu 4/ Ordinary lease 5/ Three-stage, 1 6/ Excludes milk 7/ Milk and crear 8/ Includes school 9/ Excludes school 10/ 68,414(2033). 11/ Includes skim 12/ Price ratio of 13/ Consumption m 14/ Same elasticit 15/ Consumption me

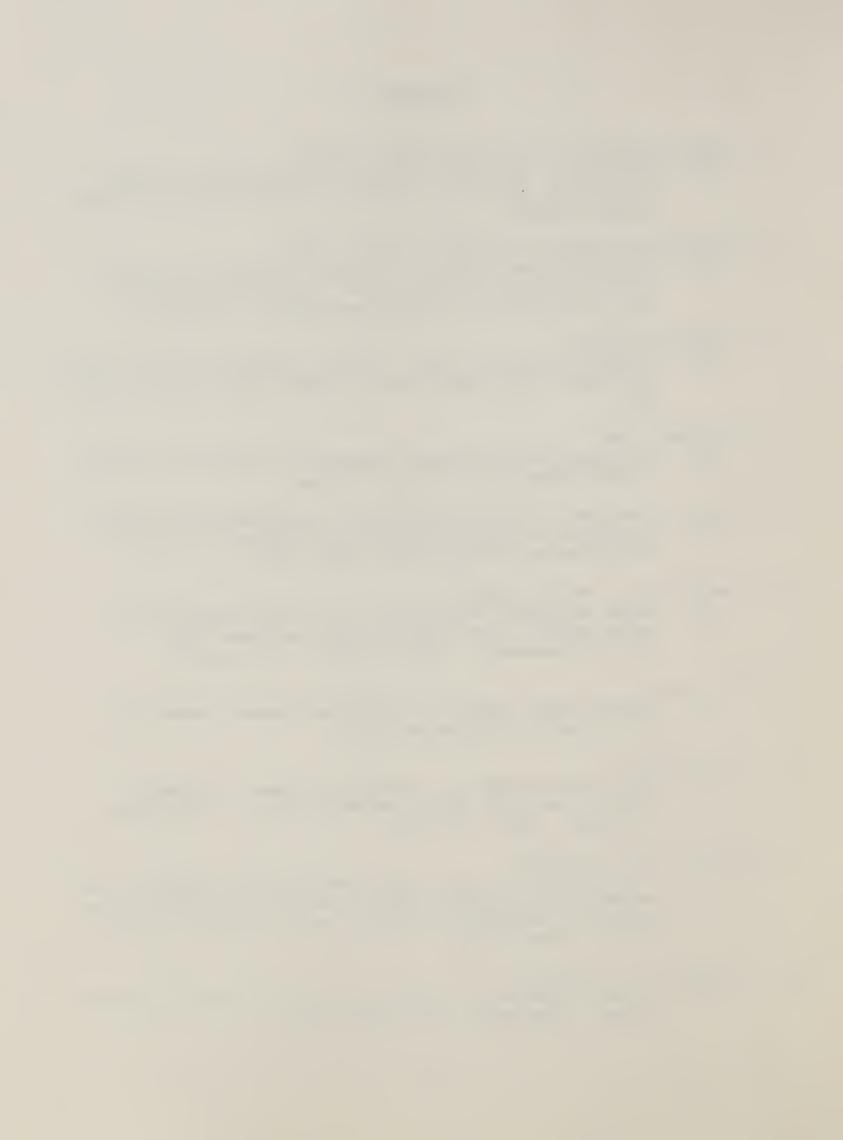


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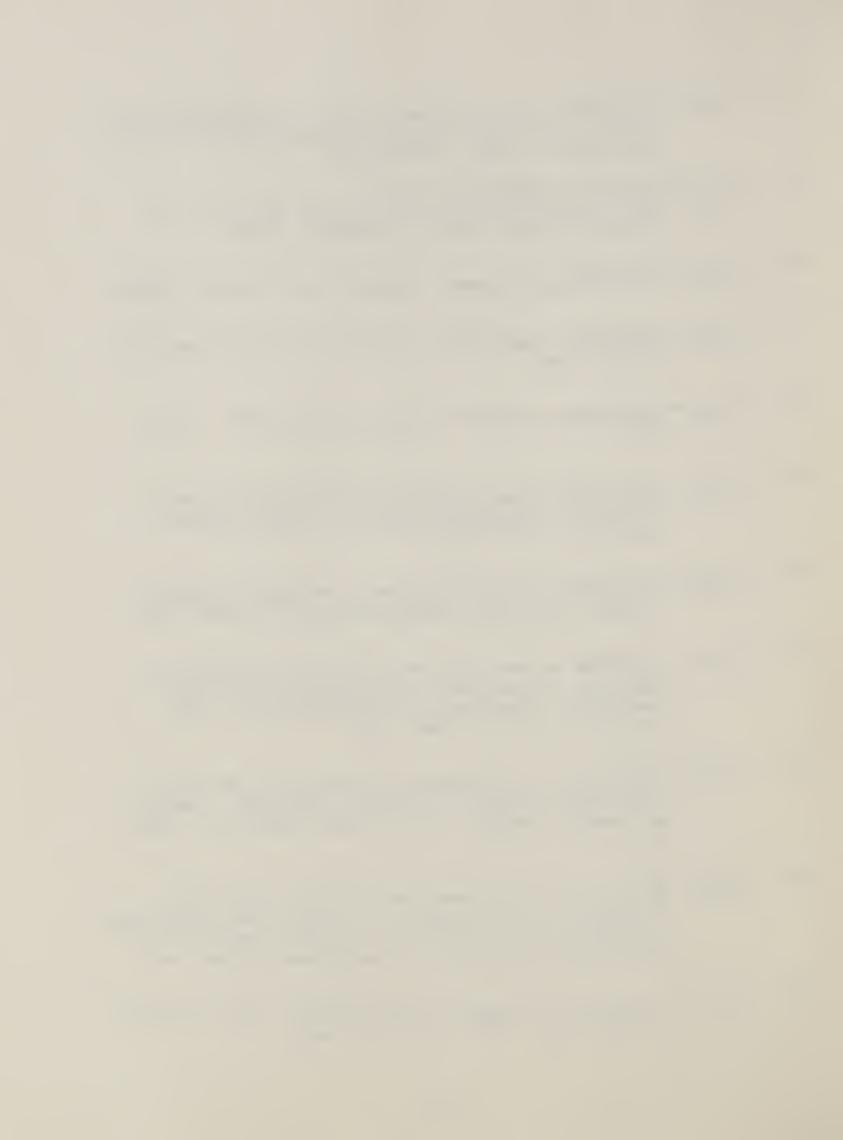
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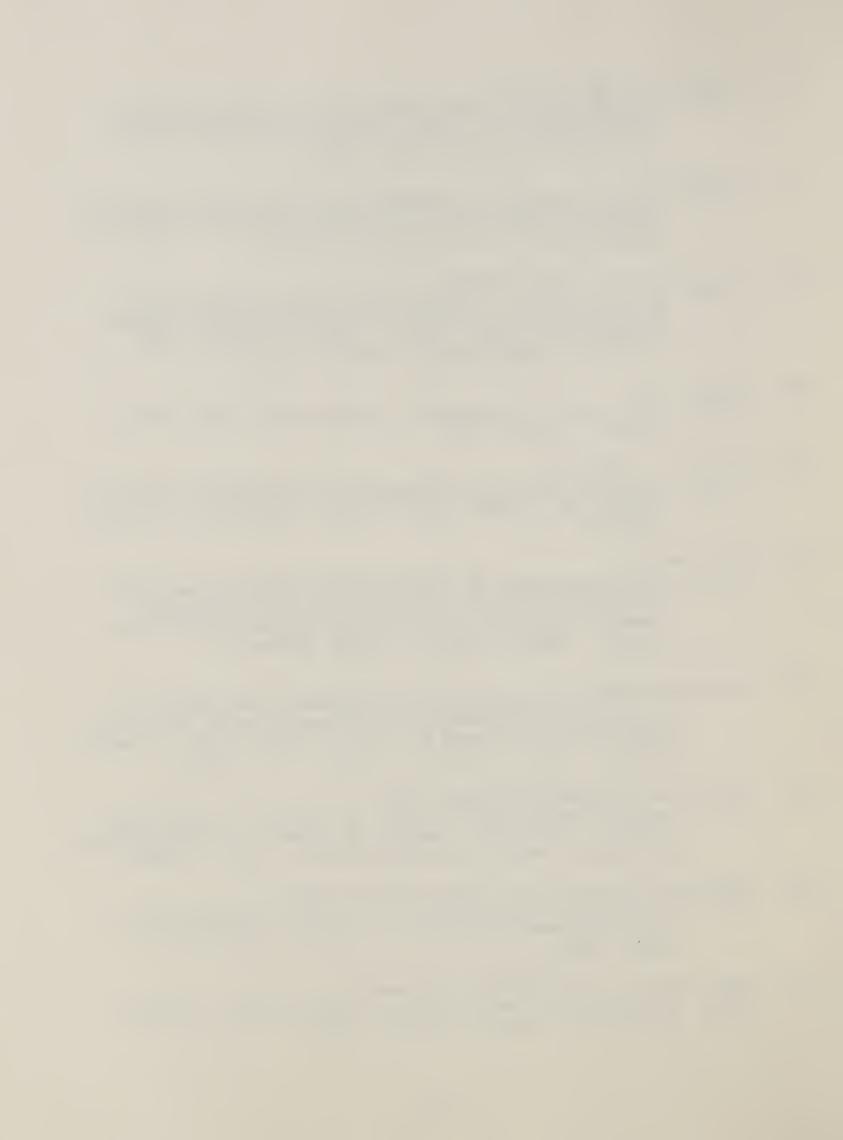
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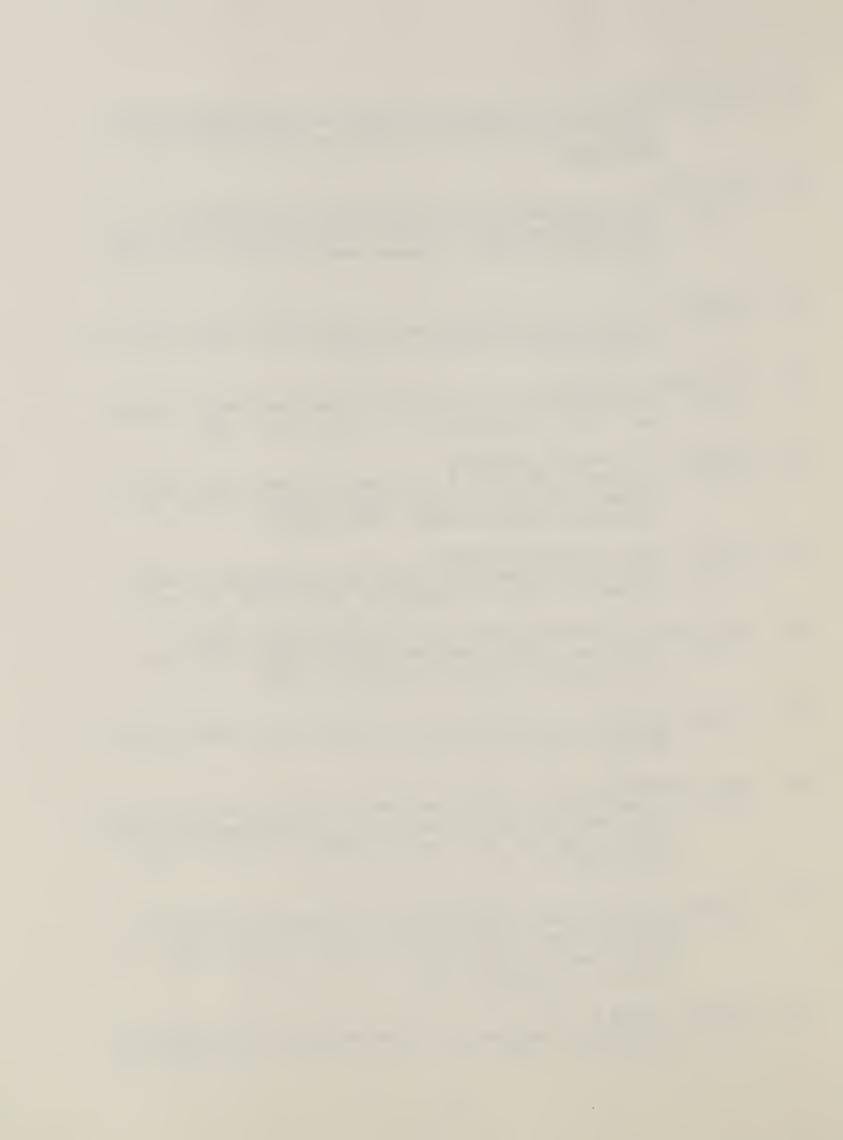
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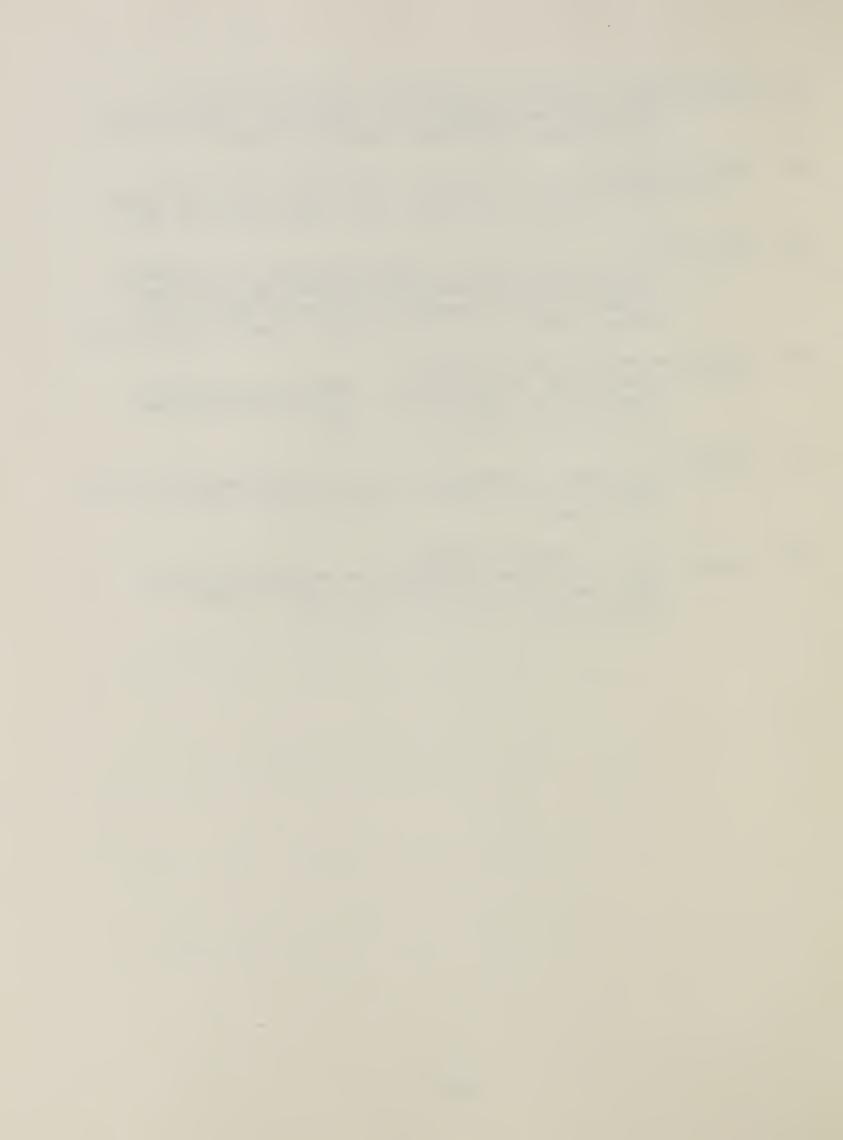
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